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A

COMPARATIVE GRAMMAR
OF THE
MODERN ARYAN LANGUAGES
OF INDIA.





COMPARATIVE GRAMMAR

OF THE

MODERN ARYAN LANGUAGES

OF INDIA:

TO WIT,

HINDI, PANJABI, SINDHI, GUJARATI, MARATHI,
ORIYA AND BANGALI.

BY

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VOL. III.

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THE VERB.

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ERRATA.

FROM LINE

- 3, 19, for *this much* read *such*.
 10, 9, for मञ्जीत read मञ्जति.
 14, 25, for *different* read *difficult*.
 19, 21, for पुरयति read पूरयति.
 21, 26, for निषोत्तितब्धे read निषो-
 दितब्धे.
 34, 3 from below, for Pall read Prakrit.
 36, 8, for śhūla read bhūla.
 39, 26, for दत्तिष्ठत् read उत्तिष्ठत्.
 44, 2, for deta read dehi.
 47, 26, *delete* that.
 50, 16, for मञ्ज read भञ्ज.
 50, 18, after *word* a full stop instead
 of a comma.
 52, 13, for *discharged* read *discharge*.
 56, 5, for 90 read 38 (ed. Stenzler).
 56, 7, for *विशम* read *विषम*.
 57, 28, for छष read छष्ट.
 58, 5, after *Pali* a full stop instead
 of a comma.
 61, 25, for hlodid read hlata.
 63, 4, for majj read majjī.
 65, 9, for तऊ read नऊ.
 70, 12, for *phrase* read *phase*.
 73, 16, for नारी read मारी.
 83, 24, for माडाइज read माडाइज.
 105, 6, for बले read बले.
 112, last but one, for मरसी read करसी.
 114, 21, for चम read यम.

FROM LINE

- 124, 1, *delete* comma after *hearing*.
 134, 6, for छोडेनो read छोडेनो.
 135, 29, after *delat* insert *f*.; for
dielat, etc., read *dēlat*, etc.
 140, 31, for सिङ्गा read सिङ्गा.
 141, 19, for भति read भीत.
 149, 24, for *asmāh* read *asmāḥ*.
 154, 29, for आवया read आवया.
 162, 7, for माह्नो read माह्नो.
 163, 2, the words 'acrist मुटा' should
 be put between brackets.
 175, 29, for Lashiana read Ladhiana.
 176, 5 from below, for *Pr.* read *P.*
 178, 18, for Nuanti read Nuhanti.
 179, 24, for दखा read देखा.
 196, 10, for 'Daughter' read 'Laughter.'
 196, 17, for खनि read रचनि.
 202, 2 from below, for 59 read 60.
 214, 4, for *Imperfect* read *Imperative*.
 225, 29, for रहती read रहती.
 250, 17, for *Imperfect* read *Imperative*.
 254, 5, for Oriya read Aryan.
 257, 3, for राजा read राजा.
 262, 22, for कथ्य read कथा.
 262, 23, for प्रमाने read प्रमाणे.
 262, 23, for लोय read लोय.
 262, 23, for *its* read *as*.
 263, 6, for *H.-D.* read *K.-D.*
 267, 9, for संहित read संहित.

COMPARATIVE GRAMMAR

OF THE

MODERN ARYAN LANGUAGES

OF INDIA.

CHAPTER I.

STRUCTURE OF VERBAL STEMS.

CONTENTS.—§ 1. STRUCTURE OF THE SANSKRIT VERB.—§ 2. BRINKINGS OF THE ANALYTICAL SYSTEM IN SANSKRIT.—§ 3. CONJUGATIONS OF THE PALI VERB.—§ 4. TENSES OF THE PALI VERB.—§ 5, 6. THE VERB IN JAINA PRAKRIT.—§ 7. SCENIC PRAKRIT VERB.—§ 8. APABHRANṢA VERBAL FORMS.—§ 9. THE MODERN VERBAL STEM.—§ 10. PHASES OF THE VERB.—§ 11. SINGLE AND DOUBLE STEMS.—§ 12. SINGLE NEUTER STEMS FROM SANSKRIT *भूत* ROOTS.—§ 13. THE SAME FROM OTHER CLASSES OF SANSKRIT ROOTS.—§ 14. MODERN NEUTER STEMS FROM SANSKRIT PASSIVE PAST PARTICIPLES.—§ 15. SINGLE ACTIVE STEMS.—§ 16. TREATMENT OF SANSKRIT ROOTS ENDING IN A VOWEL.—§ 17. THE STEM *DEKH*.—§ 18. DOUBLE VERBS.—§ 19. SINDHI DOUBLE STEMS DIFFERING IN THE FINAL CONSONANT.—§ 20. DOUBLER STEMS DIFFERING IN VOWEL AND FINAL CONSONANT.—§ 21. DOUBLER STEMS DIFFERING ONLY IN THE VOWEL.—§ 22. EXAMPLES AND ILLUSTRATIONS.—§ 23. LAWS OF THE FORMATION OF MODERN STEMS.—§ 24. THE PASSIVE INTRANSITIVE.—§ 25. THE PASSIVE.—§ 26. THE CAUSAL.—§ 27. THE PASSIVE CAUSAL.—§ 28. THE CAUSAL IN A NEUTER SENSE.—§ 29. SECONDARY STEMS.—§ 30. REDUPLICATED AND IMITATIVE STEMS.—§ 31. GIFT VERBAL STEMS.

§ 1. The Sanskrit verb, with its long array of tenses, intricate phonetic changes, and elaborate rules of formation, seems to have been subjected at a very early period to processes of

simplification. Indeed, we may be permitted to hold that some, at least, of the forms laid down in the works of Sanskrit grammarians, were never actually in use in the spoken language, and with all due deference to the opinions of scholars, it may be urged that much of this elaborate development arose in an age when the speech of the people had wandered very far away from the classical type. Even if it were not so, even if there ever were a time when the Aryan peasant used polysyllabic desideratives, and was familiar with multiform aorists, it is clear that he began to satisfy himself with a simpler system at a very distant epoch, for the range of forms in Pali and the other Prakrits is far narrower than in classical Sanskrit.

Simplification is in fact the rule in all branches of the Indo-European family of languages, and in those we are now discussing, the verb follows this general law. To make this clear, it may be well to give here, as a preliminary matter, a slight sketch of the structure of the verb as it stands in the Sanskrit and Prakrit stages of development.

In that stage of the Sanskrit language which is usually accepted as the classical one, the verb is synthetical throughout, except in one or two tenses where, as will be hereafter shown, the analytical method has already begun to show itself. By separating the inflectional additions, and unravelling the euphonic changes necessitated by them, we may arrive at a residuum or grammarian's abstraction called the root. These roots, which have no real existence in spoken language, serve as useful and indispensable pegs on which to hang the long chain of forms which would otherwise defy all attempts at reducing them to order. Some writers have lately thought fit to sneer at the philologist and his roots, and have made themselves merry over imaginary pictures of a time when the human race talked to each other in roots only. These gentlemen set up a bugbear of their own creation for the purpose of

palling it to pieces again. No one, as far as I am aware, has ever asserted that at a given period of the world's history a certain race of men used such words as *bhū*, *gam*, or *kar*, till some one hit on the ingenious device of adding to *bhū* the word *ami*, and, modifying *bhū* into *bhava*, burst upon his astonished countrymen with the newly-discovered word *bhavadmi*, "I am." What has been asserted, and truly too, is that in Sanskrit we find a large number of words expressing the idea of "being," in which the consonantal sound *bh* is followed by various vowels and semivowels, which, according to phonetic laws, spring from the vowel *ū*, and that as, for scientific purposes, some common generic term is required to enable us to include under one head all parts of the verb, we are justified in putting together these two constant unvarying elements, and so obtaining a neat technical expression *bhū*, to which, as to a common factor, can be referred all the words expressive of "being" in its relations of time, person, and condition. Analysis and arrangement of this sort is an essential part of every science, and the native grammarians had done this much work for us before European skill was brought to bear on the subject.

Verbal roots, then, are grammarians' tickets, by which actual spoken words are classified and arranged in groups for convenience of investigation. The roots in Sanskrit are mostly monosyllabic, consisting of a consonant followed by a vowel, as *bhū*, *gā*, *ni*, or of a vowel followed by a consonant, as *ad*, *ish*, *abh*, or of a vowel between two consonants, as *kar*, *gam*, *pat*. Roots may also consist of a single vowel, as *i*, and in the place of a single consonant there may be a nexus, as *grah*, *pinj*, *mlai*. Those roots which have more than one syllable are usually of a secondary nature, being in some cases produced by reduplication, as *jāgar*, in others made from nouns, as *kunār*.

Each verbal root presents six phases or grades of action: active, neuter, passive, causal, desiderative, intensive. All these are distinguished by certain modifications of the letters

of the root, and by certain prefixed and affixed syllables. Thus $\sqrt{\text{bhū}}$, "to be," undergoes the following modifications :

<i>Active</i>	}	<i>bhava.</i>
<i>Neuter</i>		
<i>Passive</i>		<i>bhūya.</i>
<i>Causal</i>		<i>bhāvaya.</i>
<i>Desiderative</i>		<i>bubhūsha.</i>
<i>Intensive</i>		<i>bobhūya.</i>

The causal also is in some cases treated as primary stem, and gives rise to subsidiary forms; thus from *pātaya* "cause to fall," is made a passive *pātya*, whence comes a desiderative causal *pipātayisha*.

Each of these six phases may be conjugated throughout thirteen tenses, in each of which are nine forms representing the three persons of the singular, dual, and plural. It rarely happens in practice that any one verbal root exhibits the whole of these forms, but if we regard the general type, we may fairly say that a Sanskrit verb, as an individual entity, is an aggregate of seven hundred and two words, all agreeing in expressing modifications of the idea contained in the root-syllable, which is the common inheritance of them all.¹ Of the thirteen tenses, nine are conjugated according to certain rules which, with some exceptions, hold good for all verbs in the language, but the remaining four tenses are subject to rules by which they are divided into ten classes or conjugations. These four are the present, imperfect, imperative, and optative; and before we can determine what form a verbal

¹ Namely, 6 phases \times 13 tenses \times 9 persons = 702. But this is an extreme valuation, for the Subjunctive (*Lot*) is only found in Vedic Sanskrit; and the two forms of the Perfect (*Lit*) may be regarded as variations of the same tense. Thus the number of tenses may be reduced to ten, viz. Present (*Lot*), Imperfect (*Lak*), Optative (*Lā*), Imperative (*Lot*), Perfect (*Lit*), Aorist (*Lak*), Future (*Lit*), Conditional (*Lak*), Second Future (*Lak*), Benedictive (*akir Lit*). By this reckoning the number of forms would be $6 \times 10 \times 9 = 540$.

root can take in any of these tenses, we must know what conjugation it belongs to.

Inasmuch also as the Sanskrit grammarians class the active and neuter phases together, we must find out which of these two phases any given verb employs, for the terminations of the tenses and persons are different. Some verbs employ both, but the majority are conjugated only in one of the two, and as there is no rule as to which of the two is to be used, the dictionary is our only guide. The active, or *Parasmaipada*, as it is called, stands to the neuter, or *Ātmanepada*, in the same relation as the active in Greek does to the middle voice, and the resemblance is the greater, in that the *Ātmanepada*, like the middle voice in Greek, uses the terminations of the passive.

Although each of the seven hundred and two words which make up the complete typical Sanskrit verb contains the common root-syllable, yet this syllable does not appear in the same form in each word, but is subject to certain euphonic and other influences which affect both the vowels and consonants composing it, and often materially alter its shape. Thus the verbal root *KAR*, "do," appears in classical Sanskrit in the following forms :

1. कृ *Kṛi*, in 1 du. pf. Par. *chakṛiva*, 1 pl. id. *chakṛīma*, 2 s. pf. *Ātm. chakṛiṣhe*, 1 du., 1 and 2 pl. id. *chakṛiṣhe*, *chakṛīmahe*, *chakṛiḥve*; in the whole of the 1 aor. *Ātm.*, as *akṛiṣi*, *akṛiḥāh*, *akṛita*, etc.; in the pass. part. *kṛitah*, and gerund *kṛitā*, and in the benedictive *Ātm.*, as *kṛiṣṭāḥ*, etc.

2. क्रि *kṛi*, in bened. Par., as *kṛiḥāṁ*, *kṛiḥāh*, *kṛiāt*, etc., and in the passive present, as *kṛiye*, *kṛiṃse*, *kṛiṣye*, etc.

3. कर् *kar*, in pres. Par., as *karami*, *karohi*, *karoti*, and before all weak terminations.

4. कुरु *kar*, in pres. *Ātm.*, as *karce*, *kurushc*, *kurute*, and before strong terminations.

5. कार *kār*, in pf. Par., as *chakāra*, and 1 aor. Par., as *akāraṇam*, also in the causal, as *kārayati*.

6. कृ *kr*, in 2 and 3 pl. pf. Par., *chakra*, *chakrah*, and 1 and 3 s. pf. *Ātm. chakre*.

In the same way the root *CRU* "hear," appears in some parts of the verb as *çri*, in others as *çru*, *çrá*, *çriñ*, and *çrâr*. In the whole range of verbal roots there is perhaps not one which does not undergo more or less modification in the course of being conjugated.

Not only does the root-syllable present itself in various forms in the several tenses, but the terminations of the nine persons differ in each tense, and sometimes one tense will have two sets of terminations. Moreover, the endings of any given tense in one phase, differ from the corresponding ones of the same tense in another phase. Thus the terminations of the present tense are in the active phase

Singular	1. <i>ami</i> .	2. <i>si</i> .	3. <i>ti</i> .
Dual	1. <i>avah</i> .	2. <i>thah</i> .	3. <i>tah</i> .
Plural	1. <i>amah</i> .	2. <i>tha</i> .	3. <i>nti</i> .

But in the middle phase the same tense ends in

Singular	1. <i>i</i> .	2. <i>se</i> .	3. <i>te</i> .
Dual	1. <i>avahe</i> .	2. <i>ithe</i> .	3. <i>ite</i> .
Plural	1. <i>amahe</i> .	2. <i>dhve</i> .	3. <i>nte</i> .

This slight outline will suffice to show how vast and intricate are the ramifications of the Sanskrit verb. The reader who has followed the steps by which the noun has been simplified, as shown in the second volume of this work, will not be surprised to find in the present volume how widely the modern verb differs from that of Sanskrit. It was impossible to reduce the verb to anything like the simplicity required by modern speakers without sacrificing by far the greater portion of the immense and unwieldy apparatus of ancient times.

§ 2. Owing to the want of a continuous succession of literary documents, such as exists in the case of the modern Romance

languages of Europe, it is scarcely possible to trace step by step the changes which have occurred in the verb. It is necessary, however, to make the attempt, and to piece together such evidence as we have, because the modern verb is an undoubted descendant of the ancient one, though only a slight trait here and there recalls the features of its parent, and its structure in many points can only be rendered intelligible by tracing it back to the ancient stock whence it sprang.

The first steps in the direction of simplification occur in Sanskrit itself. Many of the elaborate forms cited by grammarians are of very rare occurrence in actual literature, and some of them seem almost to have been invented for the sake of uniformity. Three instances of this tendency in classical Sanskrit may here be noticed.

The perfect tense in Sanskrit, as in Greek, is usually formed by reduplication, so we have from √ तप् "burn," pf. तताप, √ दृश् "see," pf. ददर्श, just as *λείπω* makes *λέλοιπα* and *τέτελεω*, *τέτεροφα*. But there are certain roots which cannot take reduplication, and these form their perfect by an analytical process. The root is formed into a sort of abstract substantive in the accusative case, and the perfect of an auxiliary verb is added to it. The verbs भू "be," अस् "be," and कृ "do," are the auxiliaries principally employed for this purpose. Thus—

√ उद् "wet," makes pf. उद्दी चकार, उद्दी बभूव or उद्दी आस.

√ चकास् "shine," चकासी चकार, etc.

√ बोधय "explain," बोधयी चकार, etc.¹

Another instance of the analytical formation is seen in the future tense made out of the agent of the verb with the present tense of the auxiliary अस् "be." Thus from √ बुध् "know," comes the agent बोधिता, which with the present of अस् makes

S. 1. बोधितास्मि	P. 1. बोधितास्मः
2. बोधितामि	2. बोधितामः

¹ Max Müller's Sanskrit Grammar, p. 172.

A third instance is a form of phrase in which the passive past participle is combined with this same auxiliary **अस्** to form a perfect definite, as **आगतोऽस्मि** "I have come," or, as more faithfully represented by other European languages, "*je suis venu*," and as we sometimes say ourselves, "I am come." Here an analytical construction supplies the place of the perfect. Closely allied to this is the frequent habit in writers of the classical style of expressing the same tense by the neuter of the p.p.p. with the subject in the instrumental, as **तेन गतं** "by him gone," i.e. "he went," instead of **अगाम**.

These are the first faint indications of a method which, in the course of ages, has developed to such an extent as to constitute the leading principle in the organization of the modern verb. By this system a greater facility for expressing nice shades of meaning is obtained. **अगाम** may mean "he went," or, "he has gone," but by the other system each of these two meanings has a phrase peculiar to itself, **गतोऽस्मि** meaning "he has gone," and **तेन गतं** "he went." Precisely in the same way the Latin had only *ego amavi* for "I loved" and "I have loved," but the Romance languages found this insufficient, and they have—

	"I loved."	"I have loved,"
French	j'aimai	j'ai aimé.
Italian	io amai	io ho amato.
Spanish	yo ame	yo he amado.

§ 3. The next step in the reduction of the numerous Sanskrit tenses to a more manageable compass is seen in Pali, originally an Indian Prakrit, but which became the sacred language of the Buddhists of Ceylon, having been carried thither in the middle of the third century¹ before Christ, by Mahendra, son of King Açoka, and spread thence to Burmah and Siam.

¹ Kuhn, *Beiträge zur Pali Grammatik*, p. 1. But Turnour, *Mahavamsa* xxi., gives B.C. 307. So also Childers, *preface*, p. ix.

Although the Pali grammarians, in their anxiety to exalt their sacred speech, tell us that the verb has ten conjugations, yet examples of all these are but rarely found.¹ Four of the ten Sanskrit conjugations, the first, fourth, sixth, and tenth, resemble each other very closely even in that language, and are easily brought down to one in Pali. The seventh of Sanskrit also loses somewhat of its peculiar type, which consists in inserting *ꣳ* between the vowel of the root and the final consonant, or *ꣳ* before weak terminations. Thus in Skr. *√ रुध्* *rudh*, "to obstruct," makes its present *रुधति* *rudhati*, but in Pali, while the *ꣳ* is retained, the present is *rudhati*, after the type of the first class.

Five out of the ten Sanskrit conjugations are thus reduced almost, if not entirely, to one. Of the remaining five, the second of Sanskrit in roots which end in a vowel exhibits some traces of Sanskrit forms, while in those which end in a consonant the types of the first, or *Bhū*, class prevail. Thus Skr. *√ या* "to go," pr. *याति*, Pali also *yāti*, but

Skr. *√ मृज्* "to rub," pr. *मर्जति*. Pali *majjati*, as if from a Skr. *मर्जति*.

√ दुह् "to milk," „ *दोमि*. „ *dohati*.

√ लिह् "to lick," „ *लेडि*. „ *lehati*.

The third conjugation occasionally takes the reduplication as in Sanskrit, but in many instances prefers the *Bhū* type. Thus

Skr. *√ भी* "to fear," *बिभेति*. Pali *भायति*.

√ धा "to hold," *दधाति*. „ *दधाति* and *दहति*.

The verb *dā*, "to give," which belongs to this conjugation, has special developments of its own, and is discussed in § 16.

The fifth, eighth, and ninth classes are very similar even in Sanskrit, for while the fifth adds *ꣳ* to its root, the eighth adds *उ*; but as all its roots except one already end in *ꣳ*, it

¹ Seven classes are given by Kaccāyana. See Senart, *Journal Asiatique*, vi. série, vol. xvii. p. 439.

comes practically to pretty much the same thing as the fifth. The ninth adds **न्**, **ना**, and **नी** to the root before various terminations. Here Pali draws very slight distinctions, making verbs of the fifth class take **नु** and **ना** indifferently, and both fifth and ninth appear occasionally in the guise of the first. Thus—

Skr. √ श्रु "hear," v.	शृणोति.	Pali सुणोति and सुणाति.
√ बन्ध् "bind," ix.	बध्नाति.	.. बंधति.
√ कृ "do," viii.	करोति.	.. करोति.
√ मन् "think," viii.	मनुते.	.. मज्जति.

The reason why the forms of the Bhū conjugation exercise so great an influence, and, like the *-as*-stem in nouns, so largely displace all the other types, is probably that the first conjugation is by far the largest, containing upwards of nine hundred out of the two thousand roots said to exist in Sanskrit. The second conjugation has only seventy-three, the third but twenty-five, the fourth and sixth about one hundred and forty each. The tenth, it is true, contains four hundred, but it is identical in form with the causal. The fifth has only thirty-three, the ninth sixty-one, while under the seventh class are twenty-five, and under the eighth only nine. These figures, it must be added, are taken from the *Dhātupāṭha*, a grammarian's list of roots,¹ which contains many roots seldom, if ever, found in use, so that for all practical purposes the first conjugation covers more than half the verbs in the language. When it is also remembered that the fourth, sixth, and tenth differ but slightly from the first, it is not surprising that the terminations common to these four conjugations should have fixed themselves in the popular mind, and been added by the vulgar to all roots indiscriminately. Nearly all those verbs which retain the type of any conjugation, except the first, are words of extremely common use, which would naturally keep their

¹ Westergaard, *Basilica Sanskr.* p. 242.

well-known forms in the mouths of the people in spite of all rules and tendencies to the contrary.

§ 4. The dual number has entirely disappeared from Pali, and the *Ātmanepada*, or middle phase, has practically merged into the active, for although Kaccāyana (*J. As.*, vol. xvii. p. 429, *sūtra* 18) gives terminations for it, yet it is admitted that those of the active may be used instead, and practically it would appear that they are so used. The other phases, as causal, passive, desiderative, and intensive, have their own forms as in Sanskrit.

Among the tenses the chief is the present, and it is in Pali that we first find a tendency to retain throughout the whole verb that form of the root which is in use in the present. This tendency grows stronger in the later Prakrits, and becomes an almost invariable rule in the modern languages. Thus—

Skr. √ पच् "cook," present	पचति.	Pa. पचति.
future	पच्यति.	„ पचिस्सति.
aorist	अपाचोत्.	„ अपचि.
gerund	पक्त्वा.	„ पचित्वा.

Phonetic influences in Sanskrit change this root as regards its final consonant in the different tenses, but Pali, having got hold of the form *pach* in the present tense, retains it throughout the verb. It is still, however, only a tendency, and not a law, for we find instances in which Pali forms are derived directly from the corresponding tense in Sanskrit. One who should attempt to learn Pali without reference to Sanskrit would find it difficult to understand how the words *karoti*, *kubbati*, *kayid*, *kāhāmi*, *akāsi*, *kattam*, could all spring from the same verbal root. It is only when the corresponding Sanskrit forms *karoti*, *kurete*, *kuryāt*,¹ *kartāmi*, *akārahit*, *kartum*, are put by their

¹ Or more strictly from an older *karyāt* not in use in classical Sanskrit. Kuha, *Beiträge*, 105.

side, that the thread which connects them all becomes evident. Just so in the Romance languages, Italian *so, mi, sapete, sanno, sappi*, seem to have very little beyond the initial *s* in common, till it is perceived that they come from the Latin *sapio, sapit, sapitis, sapient, sapui*; thus, also, *ho* and *ebbi* can only be seen to be parts of the same verb when their origin from Latin *habeo* and *habui* is recognized. In Spanish there is the same difficulty, as will be seen by comparing *hacer, hago, hies, hare, and hecho*, with their Latin originals *facere, facio, feci, facere habeo, and factum*. In Portuguese, which seems to be the lowest and most corrupt Apabhramṣa of the Romance Prākṛits, the changes are such as almost to defy analysis. For instance, *ter, tenho, tinha, live, terrei*, correspond to Latin *tenere, teneo, tenebam, tenui, tenere habeo*: also *hei, houve, haja, to habeo, habui, habeam*, and *sou, he, foi, seja, to sum, est, fui, ait*.¹

The tenses of the Pālī verb are eight in number.² These correspond to the tenses of the Sanskrit verb, omitting the periphrastic or second future (lṛṭ), the benedictive (āçir liṭ), and the subjunctive (let). The present active is almost exactly the same as the Sanskrit as regards its terminations in the Bṛh̥ form, and the middle only differs, and even then very slightly, in the 1 and 2 plural. Thus—

Skr. 1 pl. पचामहे. 2. पचध्वे.

Pa. 1. पचामहे. 2. पचहे.

In this tense, as in many others, Pālī is not very instructive, it clings too closely to the Sanskrit. It is, however, necessary to give a sketch of its forms, because they exhibit the first traces of that gradual change which has led to the modern conjugation. Even when the Pālī conjugates a verb according to

¹ Diez, Gramma. d. Romanischen Sprachen, vol. ii. p. 188.

² The materials for this section are taken chiefly from Kuhn, Beiträge, p. 93 seqq., with some additions from Childers's Dictionary, and a few remarks of my own.

any class other than the Bhû, it still keeps the personal endings of Sanskrit for that conjugation; thus from √या "go," we have—

Pa. S. 1. यामि, 2. यामि, 3. याति; P. 1. याम, 2. याच, 3. याति.

which differs from Sanskrit only in omitting the visarga in P. 1.

The imperative follows the type of the present, and may be thus compared with Sanskrit Parasmaipada,

Skr. S. 1. पचानि, 2. पच, 3. पचतु; P. 1. पचाम, 2. पचत, 3. पचंतु.

Pa. S. 1. पचामि, 2. पचहि, 3. पचतु; P. 1. पचाम, 2. पचच, 3. पचति.

and with the Ātmanepada, thus—

Skr. S. 1. पचे, 2. पचस्व, 3. पचतां; P. 1. पचामहे, 2. पचध्वं, 3. पचतां.

Pa. S. 1. पचे, 2. पचस्सु, 3. पचतं; P. 1. पचामसे, 2. पचह्यी, 3. पचतं.

Here the S. 1 Parasmai seems to have arisen from some confusion with the present, as also P. 2. Noteworthy is S. 2, with its ending हि, which, though only found in classical Sanskrit in the second, third, seventh, and ninth conjugations, has crept into all in Pali, and has continued on into the mediæval period, thus Chand

तिन मु ग॒ह्ण॒ क॒च॒ही क॒ह॒हि॥

"Say thou a good word of them."—Pr. R. i. 9.

where क॒ह॒हि = Skr. क॒च॒य (हि). In Vedic Skr. हि appears in all the conjugations. Of the Ātmane forms P. 1 seems to be derived from an older form, *masi*. P. 2 should perhaps be read *hro*, not *rho*, in which case it is a regular resultant from Sanskrit *dhe*.

The potential is the Sanskrit optative (hiñ), thus—

PARASMI.

Skr. S. 1. पचेय, 2. पचेत्, 3. पचेत्; P. 1. पचेम, 2. पचेत, 3. पचेयुस्.

Pa. S. 1. पचेयामि, 2. *य्यासि, 3. *य्य; P. 1. *य्याम, 2. *य्याच, 3. *य्यु.

ĀTHANE.

Skr. S. 1. पचेद्य, 2. पचेथास्, 3. पचेतः P. 1. पचेमहि, 2. पचेथ्य, 3. पचेरन्.

Pa. S. 1. पचेथ्य, 2. पचेथो, 3. पचेथः P. 1. पचेथ्याम्हे, 2. *थ्यो, 3. पचेर-

In this tense the point specially to be noticed is the tendency to simplify not only the root-syllable, but the range of terminations also. Having got the syllables *eyya* as the type of the tense, Pali seeks to avoid all further distinctions, and to use as much as possible the personal endings of the present tense. It sometimes conjugates the potential according to the types of other classes, and in this respect follows the lead of the present less faithfully in this tense than in the imperative. Thus, though in the present and imperative of *kar*, it follows the Sanskrit, and has *karoti*, *karotu*, yet in the potential it treats *kar* as if it belonged to the *Bhû* class, and has *kareyyāmi* as though from a Sanskrit *kareyam* instead of the actual *kuryām*. There are other peculiarities about this tense which are not here noticed, as having no bearing upon the subject of the modern languages.

The imperfect has been, to some extent, mixed up with the aorist (luṅ), and both, together with the perfect, lead us into considerations which are of interest only for Pali itself, not having survived or had any influence on modern developments. They may therefore be passed over as immaterial to our present inquiry.

The future, on the contrary, offers many interesting peculiarities, especially, as will be seen hereafter, in reference to Gujarati and some of the rustic dialects of Hindi. The future is a different tense in the modern languages, and every scrap of information which can help to elucidate it deserves special notice. It runs thus in Pali (√ गम् "go")—

Skr. S. 1. गमिष्यामि, 2. *थ्सि, 3. *थति; P. 1. *थामस्, 2. थथ, 3. थंति.

Pa. S. 1. गमिस्सामि, 2. *स्ससि, 3. *स्सति; P. 1. *स्साम, 2. स्सथ, 3. स्संति.

Here the only noteworthy feature is the change of **ख** into **क्ष**. The *Ātmanepada* follows the same rule throughout. Although the tendency to keep that form of the root which exists in the present leads to divergences from the Sanskrit future type, yet instances occur in which the Sanskrit type is preserved. These occur in reference to that very troublesome feature in the Sanskrit verb, the intermediate **इ**, which is sometimes inserted between the root and the termination, and sometimes not. When it is not inserted, the euphonic laws of Sanskrit require that the final consonant of the root be changed to enable it to combine with the initial consonant of the termination. Thus $\sqrt{\text{पच}}$ "cook," when it has to take the future termination **यति**, becomes **पक्** and **पक् + यति = पक्षति**. Here Pali sticks to the form **पच्**, because it is used in the present and makes its future **पचिस्सति** as though there had been (as there probably was in colloquial usage) a Sanskrit future **पचिष्यति** with the intermediate **इ** inserted.

In a certain number of verbs, however, it has two forms, one as above retaining the root-form of the present, and the other a phonetic equivalent of the Sanskrit. Kuhn¹ gives the following examples, to which I add the Sanskrit for comparison.

Skr. $\sqrt{\text{जम्}}$ "get,"	future जप्स्यते .	Pali जच्छति but also जभिस्सति .
$\sqrt{\text{वच्}}$ "speak,"	„ वक्षते .	„ वक्खति .
$\sqrt{\text{धा}}$ "put,"	„ धास्यति .	„ धस्सति .
$\sqrt{\text{वस्}}$ "dwell,"	„ वत्स्यति .	„ वच्छति but also वसिस्सति .
$\sqrt{\text{हिद्}}$ "cleave,"	„ हिंत्स्यति .	„ हिंक्खति „ हिंदिस्सति .
$\sqrt{\text{भुज्}}$ "eat,"	„ भोक्ष्यति .	„ भोक्खति „ भुचिस्सति .
$\sqrt{\text{मुच्}}$ "loose,"	„ मोक्ष्यति .	„ मोक्खति „ मुचिस्सति .
$\sqrt{\text{श्रु}}$ "hear,"	„ श्रोष्यति .	„ शोस्सति „ शुचिस्सति .

¹ *Beiträge*, p. 115.

The consonantal changes are in accordance with the treatment of the nexus as explained in Vol. I. p. 304. The striving after uniformity is seen, however, in the retention of the alternative forms having the same type as the present, and it is, moreover, worth observing that the forms which reproduce the type of the Sanskrit without the intermediate **र** seem by degrees to have been misunderstood. The illiterate masses, and even those better instructed, seem to have missed the *issati* which so generally indicated to their minds the future tense, and regarded those forms which had not this familiar sound as present tenses. So they made double futures by adding the *iss* to them. Thus from **दृश्** "to see," future **द्रक्षति**. Pali made a form *dakkhati*, but the people by degrees took this for a present, and made what to them seemed a more correct future *dakkhissati*. I mention this here as I shall have occasion hereafter to discuss the much-debated question of the origin of the familiar modern stem *dekh* "see" (see § 17). Another instance is

Skr. $\sqrt{\text{शक्}}$ "be able," future **शक्सति**. Pa. सक्खति, whence vulgo
सखिस्सति.

In one case Pali has a future which points back to a Vedic form:

Skr. $\sqrt{\text{रुद}}$ "weep," Vedic future **रोत्स्यति**. Pa. रोच्छति.
Classic ditto **रोदिस्यति**. „ रोदिस्सति.

Occasionally the **स्स** is softened to **ह**, as in **काहति**, **काहिति** from **करिस्सति**, Skr. **करिष्यति**. This is noteworthy with reference to Bhojpari and the eastern Hindi dialects generally.

§ 5. It used to be held that Pali was a descendant of the Magadhi dialect of Prakrit, but this opinion is now, I believe, exploded. Though the question is not yet set at rest, it would seem to have been fairly established that Mahendra was a

native of Ujjayin, and that the language which he carried to Ceylon was the ordinary vernacular of his own province.¹ This dialect was not very different from that of Magadha, and Mahendra may have slightly altered the Māgadhi sayings of the great master, by his Ujjayini pronunciation, while retaining the name Māgadhi out of deference to the sacred associations which clustered round the birthplace of Buddha.

Be this as it may, the nearest Indian dialect to Pali seems undoubtedly to be the Prakrit of the Bhāgavati, a sacred book of the semi-Buddhist sect of Jains. If Hemachandra, himself a Jain and author of several works on Prakrit, were available for reference, our task would be easier; as yet, however, none of Hemachandra's writings have been printed or edited. Weber's articles on the Bhāgavati are at present our only source of information.²

In the Jaina Prakrit the ten conjugations of the Sanskrit verb are, with few exceptions, reduced to the Bhū type. In this respect it goes further than Pali, treating as verbs of the first conjugation many which in Pali retain the type of other conjugations. The fifth, seventh, and ninth conjugations, which in Sanskrit insert *ञ्* with certain variations, are all reduced to one head by regarding the *ञ्* as part of the root, as is also the case with the *य* of the fourth class. The *u* inserted between the root and termination of the Bhū class is used throughout, though occasionally weakened to *i*, or changed to *e* from some confusion between this and the *e* = *aya*, which is the type of the tenth class. The following examples will illustrate the above remarks.

¹ Kuhn, *Beiträge*, p. 7.

² Pischel's admirable edition of Hemachandra's Grammar (Orphanage Press, Halle, 1877) has reached me just as this work is going to press, and too late to be of use for this edition, except for a few hasty notes here and there. Müller's *Beiträge zur Grammatik des Jainaprakrit* came into my hands about the same time. I find it enables me to add a few illustrations to this section, which, however, was written in the latter part of 1875.

Skr. √ ह "take," i. हरति	Jaina हरति, हरइ.
√ विद् "know," ii. वेत्ति	" वेदेइ.
Pl. 3 विदन्ति	" वेदेति.
√ धा "put," iii. दधाति	
with अपि, अपिदधाति	" पिहेइ "puts on (clothes)" and पिहाइ.
√ सिध् "succeed," iv. सिध्यति	" सिज्जइ.
but आराध् "propitiate," आराध्यति	" आराहेइ.
√ आप् "get," v. आप्नोति.	
with प्र, प्राप्, प्राप्नोति	" पाउणइ, the न being treated as part of the root.
√ चि "gather," v. चिनोति	" चयति, चयइ, but also चि- नार, with the same confusion between the नो of v. and ना of viii. as occurs in Pall.
√ श्रु "hear," v. शृणोति	
with प्रति, प्रतिशृणोति	" पडिसुणेइ "promises."
√ स्पृश् "touch," vi. स्पृशति	" फुसेइ.
√ भञ्ज् "break," vii. भनक्ति	" भंजइ.
√ कृ "do," viii. करोति	" करइ.
√ ग्रह् "take," ix. गृह्णाति	" गेहइइ, here again the ग् has passed into the root.
√ ज्ञा "know," ix. जानाति	" जाणइ.

The tenth class being identical with the first is omitted. It will be seen that the present tense is formed throughout on the model of the first conjugation, the Jain words given above being phonetic modifications of words which would be in Sanskrit respectively *harati*, *vedati*, *dhāti*, *ārdhati*, *prāpanati*,

chayati, mṇati, bhaṅgati, karati, grihṇati, and jānati, if all these verbs belonged to the first or Bhū conjugation.

It is not so easy to draw out a full verbal paradigm in this dialect as in Pali, because we have as yet no grammars, and are obliged to fall back on the words that occur in a single text. The range of tenses appears to consist of a present (corresponding to the Sanskrit *lat*), imperative (*lot*), potential (*liā*), imperfect and aorist jumbled together as in Pali, and future (*lrit*). The perfect (*lit*) seems to be altogether wanting, as it is in the modern languages.

The present runs thus:—√ *बम्* "bow."

S. 1. बमामि.	2. बमसि.	3. बमति:	P. 1. बमामो.	2. बमह.	3. बमंति.
बमेमि.	बमेसि.	बमेति:	बमेमो.		बमेंति.
		बमद्;			बमंति.
		बमेद्.			

Those terminations which contain the vowel *e* have crept into the conjugation of all verbs from the tenth, to which that vowel, as shortened from *aya*, must be held strictly to belong, or to causals. Thus in Bhāg. i. 60, we have *phāveti, pāleli, sabbheli, threti, pāreli, kippeli, anupāleli, dādheli*, for Sanskrit स्पर्शयति, पालयति, शोभयति, तारयति, पुरयति, कीर्त्तयति, अनुपालयति, आराधयति, respectively. In the last word the causal form becomes the same as the active given above. Of the imperative we have only the S. 2 and P. 2, which are in fact the only persons which an imperative can properly have. The S. 2 takes the ending *हि* as in Pali with junction vowels *a* and *e*, the P. 2 ends in *ह*, which, as Weber points out, is from the P. 2 of the present, in Sanskrit *थ*. Thus—

Skr. √ *श्च* "shine," causal रोचय, impv. रोचय, Jains रोएहि.

अथा "believe," " अदेहि. " सहहाहि (pres.
सहहर).

√ *बध्* "bind," impv. P. 2 बधीत, " बंधह.

The potential, of which only the S. 3 is traceable, resembles Pali in using the termination *eyya* with variant *ejja*.

Skr. √ गम् "go," S. 3. गच्छेत् Jaina गहेय्य, गहेय्य.

√ चह् "take," " गृह्णीयात् " नेरहेय्य.

But there exist some old simple forms derived by phonetic changes from the corresponding Sanskrit tense, as kujja = kuryāt, dajja = dadyāt (Mueller, p. 60).

The future resembles that of Pali, thus—

S. 1. नमिस्सामि. 2. °इस्ससि. 3. °इस्सइ; P. 1. °इस्सामो, 2. °इस्सह.
3. इस्सति.

It also appears with a termination *hi* produced by weakening *ss* into *h* and the following *a* to *i*, thus—

Skr. नमिष्यति, Jain गच्छिहिति and नमिहिति.

Moreover, there is a trace of the double future like Pali *akkhissati*.

Skr. √ पठ् "go," with उप, उपपठ् "attain," future उपपत्स्यते, Jaina उववन्धिहिति.

Here उपपत्स्यते would phonetically become उववच्छद्, and by still further softening उववञ्चद्, whence, as if from a present, is formed the future उववन्धिस्सद् and उववन्धिहिति.

§ 6. The reduction in the number of tenses necessitates a greatly extended use of participles. This is one great step in the transition from the synthetical to the analytical system. The Sanskrit present active participle takes in that language the characteristics of the ten conjugations, and is declined as a noun in three genders. It ends properly in *ant*, but the nasal is dropped before certain terminations, as

N.	V.	N.
पचन्	पचनी	पचत्.
वृधन्	वृधती	वृधत्.

The nasal, however, is retained throughout in Jaina Prakrit, thus—

Skr.	ज्वलन्	ज्वलन्ती	ज्वलत्.
Jaina	जलन्तो	जलन्ती	जलन्तं.

This peculiarity is worth remembering; much depends on this retention of the nasal, as will be seen when we come to the modern Sindhi and Panjabi verbs.

Very great interest attaches to the participle of the future passive, which in Sanskrit ends in तव्य. In verbs which do not take intermediate इ, this ending is added directly to the root with the usual Sandhi changes; but as Prakrit prefers to insert the इ in order to preserve the root-form of the present, it comes to pass that the त of the termination stands alone between two vowels, and in consonance with Prakrit phonetics is elided. The hiatus thus produced is in the Jaina writings filled by य. If to this we add the regular mutation of व्य into व, we get from तव्य the form यव. In its original meaning this participle corresponds to the Latin in *ritus*, as *faciendus*, and expresses that which is to be done, as लव्या गन्तव्यं “by thee it is to be gone,” i.e. “thou must go.” In this sense it occurs frequently in Bhāgavati, as for instance in § 56:

Jaina एवं देवानुप्पिया गन्तव्यं. चिट्ठियव, निसीतियव, भुजियव, etc.

Skr. एवं देवानुप्पिया गन्तव्यं, स्थातव्यं, निपत्तव्यं, भोज्यव्यं, etc.

“Thus, O beloved of the gods, must ye go, must ye stand, must ye sit, must ye eat,” where the last two words postulate a Sanskrit form with the इ inserted, such as निधीतितव्यं, भुजितव्यं.

It is obvious that it would require no great straining of the sense of this participle to make it into an infinitive, and seeing that as early as this Jaina dialect the use of the regular Sanskrit infinitive in तु has become rare, it follows that recourse should be had to some participial form to supply its place. In this way we find the past passive participle in इत, with the त elided and

its place supplied by च, employed in a construction where we should expect the infinitive. Thus Bhāg. § 54, इच्छामि पञ्चाविधं, मुञ्चाविधं, सिद्धाविधं, सिक्छाविधं (Weber, Bhāg. p. 274): "I wish to wander, to take the tonsure, to practise austerities, to learn," as though from Sanskrit forms प्रव्रजितं, मुञ्चापितं, सिद्धापितं, सिक्छापितं, the three last being causals formed with *dp*, as is frequently the case with causals in Prakrit, though of course these forms are not found in Sanskrit. In that language the formation of causals by means of प् is restricted to a few stems.

More will be said on this subject in a subsequent chapter, but it is necessary here to note an early instance of this process which takes a much wider development in later times, the infinitive in Gujarati and Oriya and several participial constructions and verbal nouns being derived from it.

§ 7. The scenic Prakrits represent a further step in development. Despite the admittedly artificial character of these dialects, they probably retain forms which were at one time in general use, although that time may not have been the epoch when the dramas were written, and without referring to them, the structure of the modern verb could not be clearly understood. It is expedient to avoid discussing this question, lest attention should be drawn away from the real subject of this work, namely, the *modern* languages. All this part of the present chapter is merely introductory and is only inserted in order to pave the way for a more intelligent appreciation of the origin and growth of Hindi and its fellows.

In the Māhārāṣṭrī or principal poetical dialect all conjugations are reduced to the type of the first or Bhū class, and the same holds good for the Çauraseni or chief prose dialect. Only here and there do we find faint traces of the peculiarities of other conjugations. Of the six phases only three remain, active, passive, and causal. The passive differs from the active only in the form of the root, the characteristic च of the

Sanskrit passive having been worked into the stem, and the terminations of the active being added to it. The *Ātmanepada* and the dual are of course rejected.

Of tenses these dialects have a still more restricted range than the Jaina Prakrits. They have the present, imperative and future, with traces of the potential. The past tense is chiefly formed by the p.p.p. with auxiliary verbs. Thus from √ श्च, "shine,"

Present S. 1.	रोचामि.	2. रोचसि.	3. रोचदि.
	रोचमि.		रोचइ.
	रोचम्हि.		
P. 1.	रोचामो. °मु. °म.	2. रोचथ. °ह.	3. रोचन्ति.
	रोचम. °मु. °म्हो. °म्ह.	°त्य. °ध.	
	रोचिमो. °मु.	°इत्य.	

Here are observable those first indications of a confusion of forms, and uncertainty in their use, which are always characteristic of that period in languages when the synthetical structure is breaking down into the analytical. In these dialects, as in Jaina Prakrit, the practice exists of inserting ए as a junction vowel; thus we have such forms as कजेमि "I do," Skr. करोमि, instead of करामि, which would be the regular result of treating कर as a Bhū verb, गच्छेम्ह for गच्छाम, "let us go." The presence of the ह् in S. 1 and P. 1 is accounted for by its being confused with that construction in which the present of चस् is used with a past participle; thus we find कदम्हि "I was made" = Sanskrit कृतोऽस्मि, and पेसिदम्हि "I have been sent" = Skr. प्रेषितोऽस्मि.

The imperative has the following forms—

S. 2.	रोच	3. रोचइ.	P. 2.	रोचध	3. रोचंतु.
	रोचाहि	रोचउ.		रोचह.	

The S. 2 has also forms रोचस्स, रोचस्सु, pointing to a Sanskrit *Ātmane* form रोचस् and P. 2 similarly रोचध = Skr. रोचध्वं, though neither are used in a middle sense, but are equivalents as regards meaning of the Sanskrit active.

The following are a few examples:

पेक्खस्स "look thou!"	Skr. प्रेक्षस्व.
णमस्स "bow thou!"	" नमस्व.
यहध "bear ye."	" वहत.
जाध "go ye."	" यात.
अवेध "go away."	" अपेत.
ओइलध "get out of the way!"	" अपसरत.
कलेध "do."	" कुवत.
जग्गेध "wake up."	" जागृत. ¹

The future most usually exhibits the form of the Sanskrit present in **इष्य = इस्स**.

S. L. रोचिस्सामि, 2. रोचिस्ससि, 3. °इस्सह.

रोचिस्सं

P. L. °इस्सामो, 2. °इस्सध, 3. °इस्संति.

etc.

°इस्सह.

This form is used indifferently with roots of all classes as in Pali, but here also there still subsist some traces of a future formed without the intermediate **इ**. Vararuchi (vii. 16, 17) gives the following:—

Skr. √ सु "hear,"	· fut.	श्रोष्यामि.	Pr. श्रोच्छं.
√ वच् "speak,"	"	वक्ष्यामि.	" वोच्छं.
√ गम् "go,"	"	[गंत्स्यामि].	" गच्छं.
√ रुद् "weep,"	"	Ved. रोत्स्यामि.	" रोच्छं.
√ विद् "know,"	"	वेत्स्यामि.	" वेच्छं.

These forms are, however, justly regarded as exceptions; for the rule in scenic, as in other, Prakrits is to retain throughout the root-form of the present. The regular type of the future is that in *इष्य*-, and the above words have also a future formed in the regular way, मुक्षिस्सह, वक्षिस्सह, गमिस्सह, etc. This स्स

¹ Some of these are Māgadhi Prakrit, but for my present purpose it is not necessary to draw a distinction between Māgadhi and Cauraseni.

is softened to ह, and the following vowel is weakened to इ, producing as characteristic the syllables *ihī*. Thus—

√ हस "laugh." S. 1. हसिहिमि. 2. हसिहिमि, 3. हसिहिइ, etc.

By a forgetfulness of the origin of such forms as सोच्छ्, the ordinary future terminations may be added to them too, just like *akkhinasati* in Pali (§ 4), so that we find सोच्छिस्सति, and सोच्छिहिति.

The various tenses which in Sanskrit indicate past time have already in Pali and the earlier Prakrits been fused down into one. In scenic Prakrit a further step is taken, and the syllables *is*, erroneously written *is* in some MSS., are added to the root for all persons of the past tense (Var. vii. 23, 24. Lassen, *Inst. Pr.*, 353). This is probably the neuter of the p.p.p. in Sanskrit, and its use is due to the frequency of the construction with the instrumental. Instead of saying "I saw, I went, I heard," the people said, "by me seen, gone, heard." This point is one of great importance in modern Hindi and Gujarati.

§ 8. While the Maharashtra and Çauraseni dialects are considered the principal ones in the dramas, there are yet others of great importance, such as the Māgadhi, with its sub-dialects. Among these, however, it is necessary only to notice that called Apabhraṇṣa. I do not wish here to touch upon the question whether the dialect called by this name in the dramas really represents the speech of any particular Indian province or not. I assume, for the sake of convenience, that Apabhraṇṣa is really a vulgar speech further removed from the classical idiom than Maharashtra or Çauraseni. There may have been half a dozen Apabhraṇṣas, probably there were. In this section I am merely seeking to put together examples of verbal forms in a dialect one step nearer to modern times than the principal scenic Prakrits, and having done so, shall go on to my own special subject.

All that we can expect in the way of tenses after what has been said in the preceding sections, is a present, an imperative, and a future. The rest of the verbal work is done by participles.

√ प्रश् "ask," Present S. 1. पुच्छामि, 2. *च्छसि, 3. *च्छद्.
पुच्छमि, एर.
*एमि *रमि.

P. 1. पुच्छाम, 2. पुच्छद्, 3. *च्छति.
*एह.

√ कृ "do," Imperative S. 2. करहि, P. 1. करज्, P. 2. करद्.
करे,
करि,
करद्,
कर.

In the future, although the form with the characteristic *iss* is found as सुमरिस्सदि = करिष्यति, Skr. √ क्षृ, yet more commonly we find the form in which स्स has been softened to ह्; thus

S. 1. करिहिमि, 2. करिहिसि, 3. करिहिद्, etc.

The grammarians also give a

P. 1. in ज् as कामाज् = करिष्याम.

The participles resemble in most respects those in other Prakrit dialects, but that in तथ्य becomes इज्, as करइज् and करिज् = करितव्य (कर्त्तव्य). The gerund ends in प्यि, प्यिण्, and a softened form बि; the ordinary Çauraseni form इण्, which will be found in several modern languages, is here also used. To the gerund rather than to the infinitive, as the grammarians would have it, seems to belong the form in एवज्, as जहेवज्, the exact genesis of which is doubtful, though, as to the final ज्, there is an analogy in the true infinitive जहणज्, which very closely approaches to Charid's forms, as वरणज्, वरणवुं.

In addition to the above forms which are found in scenic Apabhraṅga, others and those more genuine fragments of popular speech are to be picked out from scraps that have

been preserved by bards. It is much to be wished that we had more of Hemachandra's works accessible, as in them we should doubtless find a rich mine of such words. Thus for all past tenses there is the participial form in **इत्** for all three persons, as

जानिउं = जानितं (जानतं).

कहिउं = कथितं.

अप्पिउं = अप्रियं.

It has a plural in **आ** or **या**, as:

आया = आगताः

वारिया = वारिताः

उट्टिया = उत्थिताः

Sometimes also the *u* of the singular is rejected and *a* substituted, as **भक्षिच्च = भक्षितं**. There are other forms to be found in these poems which will be referred to hereafter when the modern forms which they illustrate are under discussion.

As a general result from the preceding brief sketches it may be asserted that Sanskrit, Pali, and the Prakrits taken collectively as the languages of the earlier stage have a common structure, though in different grades. Sanskrit, with its full range of synthetical tenses, yet admits here and there analytical constructions. Pali does the same, though its synthetical tenses are fewer and simpler. The Prakrits reduce the tenses still further, and make greater use of participial constructions. The treatment of the root-syllable also shows a gradually increasing tendency to simplification, for whereas in Sanskrit it is changed in form repeatedly in the various tenses, a practice begins in Pali and grows more common as we go down the stream, of using in all parts of the verb that form of the root which is found in the Sanskrit present.

From the review of these languages given above the passive and causal have been purposely omitted, because the parts which they play in the development of the modern verb are peculiar,

and will be better understood when seen side by side with the modern forms. The desiderative and intensive have left few or no traces of their existence, and may be passed over unnoticed.

§ 9. We may now approach the languages of the present day, and the discussion becomes more minute and particular. Though the verb of the new world has ways of its own, yet it stretches out hands across the gulf of centuries to the old world verb, and supports its claim to descent from it by still preserving traces unmistakeable, though often faint and irregular, of the ancient forms and systems.

As in the noun, so also in the verb, the first thing to be considered is the stem. The modern verbal stem undergoes no changes, but remains absolutely the same throughout all moods, tenses and persons. To this rule there is a small though important exception, consisting of some participles of the preterite passive which are derived direct from the Prakrit forms, and are thus early Tadbhavas. The number of these early Tadbhava participles differs in the various languages. They are most numerous, as might be expected, in Sindhi, which has a hundred and forty of them in a total of about two thousand verbs. In Panjabi, Gujarati and Marathi the number is rather less, while in Hindi only five, and in Bengali and Oriya only two exist. They will be found, together with their derivations, in Chapter III. §§ 46, 47, 48.

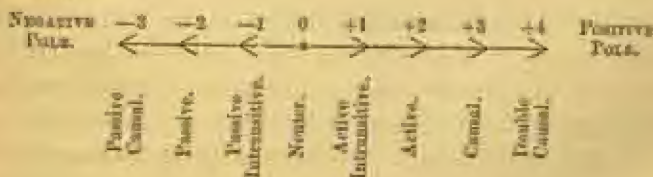
With this slight exception the verbal stem remains unaltered throughout. Thus, having got, by means hereafter to be explained, the word *sun* for "hear," Hindi simply tacks on to it the terminations; thus *sunad* to hear, *suntd* hearing, *sunā* heard, *sunāñ* I hear, *sunē* he hears, *sunō* hear ye! *sunegā* he will hear, *sunkar* having heard.

Primary stems are almost always monosyllabic, but secondary or derivative stems have often more syllables than one. The

latter may be brought under three heads. First, stems derived from Sanskrit roots with which a preposition has already been compounded, principally उत्, नि, प्र, and से, as *utar* "descend," *nikal* "go out," *pasar* "spread," *sankoch* "distress." Second, stems formed by reduplication, as *ghanghan* "tinkle," *tharthar* "flutter." Third, stems with an added syllable, as *gutak* "swallow," *ghast!* "drag," *karkach*, "hind."

It was seen above that in the old world verb there were six phases, and that two of these, the desiderative and intensive, have since been lost. The modern verb having to provide for active, neuter, passive, causal and other phases, has been obliged to have recourse to processes of its own, by which it arrives at the possession of a much wider range than Sanskrit can boast of, and does it too by far simpler means. Partly this result is obtained by ingenious adaptations of Prakrit forms, partly by modifications of, or additions to, its own stems, and partly by combining two stems together. It will first, therefore, be necessary to examine what phases the modern verb has, and then to proceed to examine the processes by which it has provided itself with the necessary forms for each phase.

§ 10. Those phases which are expressed by one word may be ranged as regards meaning in a regular scale of grades of action, according to the degree and kind of activity they express. In the following scheme we take the neuter as the point of quiescence, and trace degrees which start from it towards a positive pole indicating activity, and a negative pole indicating passivity.



The foregoing table looks, I fear, somewhat fanciful, but I know not how better to express a matter which is a striking and very important feature in the modern Aryan verb. It may be explained by considering each phase separately.

The neuter verb (0) expresses neither action nor passion. It conceives of the subject as in a condition of mere existence, as *being* something, not *doing*, and is therefore the simplest phase of verbal description. Pure neuter verbs are *ho* "be," *rah* "remain."

The next grade is the active intransitive (+1) which conceives of the subject as indeed acting, but acting in such a way that his action does not pass beyond himself to affect an external object, as *soch* "think," *chal* "walk," *phir* "revolve."

The active transitive comes next (+2). In this the subject is considered as acting in such a way that his action affects external objects, as *mar* "beat," *khā* "eat," *pi* "drink."

The next grade is the causal (+3), in which the subject acts upon an external object in such a way as to cause it to act in its turn upon a second object, as *H. sunā* "cause to hear," *H. phirā* "cause to turn."

In some of the languages there is a yet further grade, the double causal (+4), in which the subject causes the first object to set in motion a second object, so that it affects a third object, as *S. phirā* "cause to cause to turn," *S. ghārā* "cause to cause to wound."

Returning now to the neuter or central point, and starting off again in the opposite direction towards the negative pole, we arrive at the passive intransitive (-1). In this phase the subject not only takes no action, but is himself under the influence of exterior agencies. It differs as much from the neuter on one hand as from the passive on the other, and is a sort of middle voice. It is called in Sanskrit grammar *Bhāva-* or *Sahya-bheda*, and is principally used in Gujarati, though ex-

isting in the other languages also, as G. *abhadā* "be polluted" (be in a state of pollution), H. *ban* "be built" (be in process of construction).

The passive (-2) is that phase which regards the subject as no longer an agent, but as being acted upon, as S. *dhōjā* "be washed."

Lastly comes the passive causal (-3), where the subject causes an object to be acted upon by a second object, as M. *mārci* "cause to be struck."

It must not be supposed that all of these phases are found in every language. On the contrary, in none of the languages are there separate forms for each phase. It is only on reviewing the whole seven in a body that the full range of phases is seen. Generally speaking, the eight phases are represented by six sets of forms :

1. Neuter,	including	0, +1 and -1.
2. Active,	"	+2.
3. Passive,	"	-2.
4. Causal,	"	+3.
5. Passive Causal,	"	-3.
6. Double Causal,	"	+4.

The double causal and passive have separate and distinct forms only in Sindhi. The passive, however, is found in some rustic dialects of Hindi. Generally the use of the passive construction is avoided by having recourse to the passive intransitive (-1) or the neuter (0), the former of which has a distinct form in Gujarati, Old Hindi, and Bengali, and in the construction of sentences in which it is used resembles the active, like *cupulo* in Latin.

Of the above phases the neuter and active are the simplest, the other forms being derived from them by the addition of syllables or internal modifications; the secret of the formation

of the modern verb is therefore to be sought for in the neuter and active.

§ 11. Some verbal stems are found only in the neuter form, others, again, only in the active, while a third and somewhat large class has both a neuter and an active form. For convenience, the first two classes may be called single stems, and the last double stems. Those double stems arise from the circumstance that two separate but, so to speak, twin verbs, have been made by the moderns out of one old Aryan root, each modern stem being derived from a different part of the old verb, as will be shown further on.

Among single stems, those which are neuter (including active intransitive and passive intransitive) supply the place of an active by employing the causal, thus H. **बनना** (passive intransitive) "to be made," takes as its corresponding active **बनाना** "to make," which is really a passive causal, meaning "to cause to be made." Those single stems which are active mostly require no neuter, but should it be necessary to express one, the passive intransitive is used, as **कहना** "to tell," **कहलाना** "to be called."

Moreover, in Sanskrit there is a class of verbs derived from nouns, and called denominatives, which express the being in the state described by the parent noun, and sometimes (though more rarely) the action of the subject. Verbs of this sort are common in all languages of the Aryan stock, and notably so in modern English, where a verb may be formed almost at will from any noun; thus we say "to eye," "to mouth," "to beard," "to house oneself," "to shoe a horse," etc. In Sanskrit these verbs take the form of the tenth conjugation, or perhaps it would be more correct to regard them as causals. Examples are Sanskrit *agadyati* "he is in good health," from *agada* "healthy"; *chupalāyate* "he trembles," from *chupala* "tremulous"; *pañḍilāyate* "he is learned," or "he acts the

pedant," from *pandita* "a (so-called) learned man";¹ *yoktrayati* "he yokes," from *yoktram* "a yoke." Probably from this cause it arises that there are in the moderns neuter verbs with a causal termination, as M. बडकाविणे "to bang," "crack," H. घबराणा "to be amazed," चबलाना "to totter." See § 28.

All these points will be noticed in detail in their proper place, they are cursorily mentioned here as an introduction to the general subject, and to show that there is an interchange and playing to and fro of forms and meanings which is somewhat difficult to unravel, and the more so as in colloquial usage the verbs are often very laxly and capriciously employed.

§ 12. Single neuter verbs are to a great extent early Tadbhavas as far as their stems are concerned, and consequently retain the Prakrit type. Thus they exhibit few or no traces of the tenfold classification of the Sanskrit or of the numerous phonetic changes that take place in the interior of the verb, but follow as a rule the form of the root in the present tense of the Bhū class. Here follows a list of some of the simplest and most used stems in the modern languages derived from verbs which in Sanskrit are Bhū. In the dictionaries the modern verbs are generally shown under the infinitive mood, but in the following lists I have thought it better to give only the stem; the reader can add the form of the infinitives if he wishes to refer to them in the dictionaries, as H. ना, P. ना or ना, S. ण, G. वु, M. जे, O. दवा. In the Bengali dictionaries verbs are given under the stem alone.

Skr. √ भू "be," pres. भवति, Pa. भवति and होति, Pr. भोदि, होदि, होर, H. हो and so in all, except S. ऊह, and in O. होद् is contracted

¹ A *pandita* in the present-day in India is an individual who is supposed to be deeply read in all the most useless parts of Sanskrit literature, and is densely ignorant and contemptuous of all other branches of human knowledge.

to डे. This verb will be treated at full length further on as the chief auxiliary of these languages (see Chapter IV, § 65).

√ चल "move," चलति, Pa. *id.* Pr. चलइ, H. S. चल, P. चल. G. चाल, चळ, M. चाल, चल, चळ, O. B. चाल.

√ लग् "stick," लगति, Pa. लगति and लगति, Pr. लगइ, where the ग्ग is probably caused by the passive लग्यते or the p.p.p. लग, H. लग, P. लग्ग, S. लग्ग, in the rest लग्. It is neuter in the moderns.

√ कम् "tremble," कम्पति, Pa. *id.*, Pr. कंपइ, H. कंप, कांप, P. कम्प, S. केव, G. M. B. कांप, O. कम्प.

√ भ्रम् "wander," Pa. भ्रमति, Pr. भ्रमइ (Vik. iv. *passive*), H. भ्रम, भौं, भंव, P. भ्रम, भौं or भउं, S. भ्रमे, भम, भउ, भंव, G. भ्रम, भम, M. भोव, भोव.

There is little that is remarkable in the above list, the modern forms being regularly produced by the working of the usual phonetic laws. The verb *sthd* "stand," being one of the common auxiliaries, demands a fuller notice. Here follow some of the principal tenses in the old languages :

REX.	PA.	PR.
√ स्था and ष्ठा I. S. 3, pres. तिष्ठति)	तिष्ठति ठाति	चिष्ठदि (Mdg.), चिठ्ठदि (Caur.), ठाचइ, ठाइ (Var. vii. 25, 96).
P. 3. तिष्ठति	तिष्ठति, ठाति	चिष्ठति, चिठ्ठति, ठाति.
Impr. S. 2. तिष्ठ	तिष्ठ	चिष्ठ, चिठ्ठ, ठाहि.
S. 3. तिष्ठतु	तिष्ठतु, ठातु	चिष्ठदु, चिठ्ठदु, ठाउ.
Future S. 3. स्थास्यति	ठस्यति	ठाहिर.
Infñ. स्थातुं	ठातुं	चिठ्ठिदु.
P.p.p. स्थितं	ठिठ्ठं	चिठ्ठिदं, ठिष्ठं, ठिचं.
Gerund स्थित्वा	ठत्वा, ठत्वात्	ठिच, ठिच.

Of the three forms in Pali that having ठा as its root-syllable has survived to modern times, though in most cases with the dental instead of the cerebral aspirate. In H. there is only a

fragment in the shape of a past participle S. *धा* *m.* *धी* *f.* P. *धे* *m.* *धी* *f.* S. G. and O. have a whole verb, thus—

	६.	७.	८.
Infinitive	धिञ्जु "to be."	धुं (धाञ्जु)	धिका (धाइका)
Aorist	S. 1. धिञा	धाउ	धाए
(= Skr. pres.)	2. धिए, धी	धाञ (धाय)	धाउ
	3. धिए	धाञ (धाय)	धाए
	P. 1. धिजं	धइए	धाउं
	2. धिञो	धाञो	धाञ
	3. धिञनि	धाञ	धाति
Present part.	धींदो	धतो	धाउं
Past part.	धिञो	धञो and धयेलो	धिना
Future	S. 3. धींदो	धये	धिब
	P. 3. धींदा	धये	धिबे

The structure of these forms will be found discussed in Ch. IV. § 69. M. has an old poetical *ढेज्* "to be," but from the Pr. form *धिङ्* there is, as far as I know, only one descendant, and that is the modern Oriya adjective *धिडा* "standing," which seems to point to Pr. *धिङ्*, Skr. *धितं*.

It is interesting here to notice the parallel treatment of Sanskrit *धा* and Latin *sta* in their respective descendants. Both roots survive, but have almost entirely lost the sense of "standing," and have come to mean "be," "become." In S. G. and O. the above quoted verbs are used as auxiliaries denoting a more special and definite kind of being or becoming, and are thus distinguished from the less definite auxiliaries derived from *भू* or *वस*. Sindhi *hunn* and *thiann*, Gujarati *hovan* and *thavun*, Oriya *hoihā* and *thihā*, stand to each other exactly in the same relation as Spanish *ser* from *esse* does to *estar* (from *stare*). Thus *Pedro es enamorado* "Pedro is loving (by disposition)," but *Pedro está enamorado* "Pedro is in love (with some one)." So *el es bueno* "he is good (by nature)," but *el está bueno* "he is

well (in health)." In Italian, although *stare* still means "to stand," yet it is constantly and regularly used in the sense of being, thus *sto leggendo* "I am reading," does not imply that the speaker stands while he reads, but merely indicates that he is engaged in reading; just so an Oriya would say *parhu thān*. *Stai bene?* "art thou well?" *sta qui vicino* "he is living close by," would be correctly rendered in O. by the exactly parallel expressions *phāla thān?* and *ethi mikat thān*. In French, as in Hindi, the verb has been lost, and a Frenchman has to use the roundabout expression *il se tient debout* for "he is standing," literally "he holds himself on end," just in the same way as the Indian has to say *kharā hai* literally "he is propped up," (खड़ा = Pr. खड्वा = Skr. खड्व from √ खम् to support).

§ 13. Examples of verbs derived from roots which in Sanskrit belong to other conjugations than the first are now adduced to show how completely all traces of the peculiarities of those conjugations have been abandoned.

Skr. √ या "go," II. याति, Pa. *id.*, Pr. जादि and जाचदि (the latter as if from a Bhoṭ verb चाचति), H. जा, P. M. B. *id.*, G. and O. retain जा in some tenses, but in others shorten it to G. ज, O. जि.

√ स्वप् "sleep," II. स्वपिति, Pa. सुपति, Pr. सुवइ, मुचइ, सुवेइ, H. सो, P. सौ, S. मुम्ह, G. सु, B. and O. सो.

√ भी "fear," III. बिभेति, Pa. भायति, Pr. भीचइ, भाचदि, बीहइ (Var. III, 19), M. भि, भे, G. बीह, बीही, बिह (not in the rest).

√ नृत "dance," IV. नृत्यति, Pa. नच्चति, Pr. नचइ, H. नाच, P. नच, S. नच, G. M. O. B. नाच्.

√ शक् "be able," V. शक्नोति and IV. शक्यति, Pa. सक्कति, सक्कोति, सकुक्कोति, Pr. सक्कइ, सक्कणोति, and सक्कु°, H. सक, P. सक्क, S. सच, G. M. शक्.

In *nāch*, as in several other verbs derived from Div roots, the characteristic च of the Div class seems to have got mixed up

with the root and has thus been preserved. Although in *nek* both Pali and Prakrit retain some traces of the peculiar type of the *Sa* class, the moderns entirely reject them and form as if from a *Bhū* root, thus H. सके "he can," postulates a Sanskrit शकति, and so with the other languages.

How the following verb came by its modern form I know not, but all the authorities agree in referring it to $\sqrt{\text{वृ}}$. It is a very common word, and it is just these very common words that are the most difficult to trace. Perhaps वृ became वूर, and so वूल and वोल.¹

Skr. $\sqrt{\text{वृ}}$ "speak," il. प्रवीति and वृते. Pr. वोळइ (Mfich. 230, end of Act vi.) Old H. वुळ (o is short in Pr.), H. वोल, S. वोल, all the rest वोल.

§ 14. In the above examples the modern verb retains the form of the present tense, but there is a tolerably large class of stems which retain the type of the p.p.p. of Sanskrit as modified by the Prakrits.² These verbs express positions of the body, states or conditions whether material or mental, and the possession of qualities. The past participle of the Sanskrit has been treated as an adjective and a new verb formed from it, just as in English we have verbs "to contract," "to respect," "to edit," from the Latin *contractus*, *respectus*, *editus*, the respective past participles of *contrahere*, *respicere* and *edere*.

The modern Romance languages often preserve a long string of nouns derived from a Latin verbal root, while they have lost the verb itself; for instance, French, while it possesses no verb

¹ Since writing the above I see that Hemachandra gives *bolāi* as one of the ten Prakritisms of *lath*; he means it evidently not as derived from *lath*, which is impossible, but as a popular equivalent (Fischel's *Hem.* iv. 2). In the same *sūtra* he gives also *asaykai* for *lath*, in which we see the origin of M. *asayene* "to speak." Hemachandra has also *bolāi* = *kathayishyati* (iv. 369), *bolāne* = *kathayitum*, *bolāne* = *kathayāte* (v. 14, 383. But he gives *draca* as the equivalent of *drā* in iv. 391, so that the origin of *bol* still remains doubtful.

² This process was indicated by me in Vol. I. p. 179. Hoernle afterwards discussed it as if it was his own discovery in *Indian Antiquary*, vol. i. p. 357. Perhaps he had not then seen my first volume.

directly representing the Latin *sta* "stand," has numerous nouns from that root, as *station*, *étage*, from *statio*, *état* from *status*. From these nouns fresh verbs are derived, as *stationner* and the like. So also the modern Indian languages, while they have lost such roots as *dip*, *kram*, as verbs, have nouns *dipa*, *idya* and derivatives, also *krama* as a noun with numerous secondary formations.

Analogous to this is the practice we are now discussing of forming verbs from Sanskrit participles, a practice which begins as early as Prakrit, and appears to have arisen from the habit mentioned in § 3 of forming a definite preterite by compounding the participle with **अस्**, as in **गतोऽस्मि** "I have gone." It was pointed out in § 7 that this practice had been extended in Prakrit so widely that it had resulted in giving a termination in **न्हि** to the present tense, as in **पेसिद्धन्हि**. Examples are :

Skr. **√ विश्** "enter," with **उप**, **उपविश्** "take a seat," i.e. to pass from a standing to a sitting posture, p.p.p. **उपविष्ट** "seated," Pa. **उपविट्ठो**, Pr. **उवविट्ठो**, and later **उवरट्ठो**, whence, by rejection of **उ**, H. **वेठ**, P. *id.*, M. **वेस**, where the last consonant is due to a confusion between **वेठ** and **वस**. G. has **वेश**, which is from Skr. pres. **उपविशति**. Its p.p.p. is **वेठो**. S. also **विह** by softening of **स** to **ह**, p.p.p. **वेठो**. With **प्र**, **प्रविश्**, "enter," "penetrate," P. **प्रविट्ठो**, Pr. **परट्ठो**, whence H. **पेठ**, "to enter" (generally with the idea of penetrating forcibly). G. again **पेश** from **प्रविशति**, p.p.p. **पेठो**, S. **पिह**, p.p.p. **पेठो**.

Skr. **√ पच्** "cook," **पचति**, p.p.p. **पक्क**, Pa. Pr. **पक्को**, H. **पक** "to be cooked," to be in process of cooking (if you ask, "Is dinner ready?" your man answers, **पक्कता** "It is being cooked"), P. **पक्क**, G. **पाक**, M. **पिक**. It also means "to ripen," "to be in course of growing ripe." B. **पाक**. There is also a stem from the present **पचति**, as S. **पच्** "to grow ripe," p.p.p. **पक्को**. H. and all the rest have **पच**, but in the sense of rotting, decaying.

Skr. $\sqrt{\text{शुष्}}$ "dry," p.p.p. शुष्क. Pa. Pr. सुक्खो, H. सूख "to be dry."
P. सुक्ख, S. G. M. सुक्क, B. O. शुक्.

Skr. $\sqrt{\text{भञ्ज}}$ "break," p.p.p. भय. Pa. Pr. भग्गो, H. भाग "to flee"
(said originally of an army, "to be broken up and dispersed"), G. भाग,
M. भाग, "to yield, give way," also भंज ञ, "to break," O. भांज. Here
again there are stems as if from the present form Bhā भञ्जति, Pa. भञ्जति,
Pr. भञ्जह, H. भञ्ज "to be broken," and भञ्ज. (See § 19.)

Skr. $\sqrt{\text{गम}}$ "go," with उद्, p.p.p. उद्गत "sprang up," Pr. उग्गच्छो.
H. उग, "to spring up" (as a plant), P. उग्ग, S. G. उग, M. उगव.

It is questionable whether we should here class some words which come from $\sqrt{\text{भृ}}$ with उद्. The present would be उद्भरति, but though the p.p.p. in Sanskrit is उद्भूत, yet in such verbs Prakrit forms the p.p.p. on the model of the present tense, and has उब्भरिच्चो as if from Skr. उद्भरित, so that the modern verbs उमर, उमल, and the like keep the type of the present tense as much as that of the participle.

Another very common word is उद् "to rise," but in this case Prakrit has already adopted this form for all parts of the verb, as has also Pali; thus from $\sqrt{\text{उद्}} + \text{स्था}$ Skr. makes उत्था "to stand up."

	SKT.	PA.	PR.
Present	S. 3. उत्तिष्ठति	उट्ठहति, उट्ठाति	उट्ठदि, उट्ठेदि, उट्ठेर
Impv.	S. 2. उत्तिष्ठ	उट्ठह	उट्ठेहि
	S. 3. उत्तिष्ठतु	उट्ठतु	उट्ठेउ
Future	S. 3. उत्थास्यति	उट्ठहिस्सदि	उट्ठिस्सर
Pres. part.	उत्तिष्ठत्	उट्ठन्तो	उट्ठतो
P.p.p.	उत्थित	उट्ठितो	उट्ठिदो, उट्ठिचो
Infia.	उत्थातुं	उट्ठातुं	—
Gerund	उत्थाय	उट्थाय, उट्ठहिस्सा	उट्ठिच

Here, whatever be the form taken in Sanskrit, both Pali and Prakrit assume a stem उद्, and conjugate it as if it were a Bhū verb throughout. It seems as though उद् being com-

pounded with डा had lost its final consonant, thereby making a form उडा, whence Prakrit उड्. Sanskrit has adapted the opposite course, and while keeping उड् intact, has sacrificed the म of खा in the non-conjugational tenses, retaining it in the conjugational ones where it is prevented from coalescing with the preposition by the reduplicated syllable. In the moderns we have H. उठ, P. उड्, S. उथ and उठ, and in all the rest उठ.

The stem रह् has undergone a change of meaning which is explainable only by bringing it under this head.

Skr. √ रह "desert," रहति, usually found in Prakrit only in the p.p.p., रहितो (= रहित) in the sense of "deserted," then almost adverbially, as "without," hence probably the meaning which it bears in the modern languages, "to stop," "stay," "remain," from the idea of being deserted, left behind. It is रह in H. and all except M. राह, G. रेह. It is ancillary in most of the languages as पढते रहो "go on reading." (See § 72, 10).

§ 15. Single active stems exhibit the same method of formation as the single neuter stems given in § 12. A few examples are given of roots which in Sanskrit are of the Bhū, or the closely allied Div, Tad, and Chor classes.

Skr. √ खाद् "eat," खादति, Pa. *id.*, Pr. खाइ (Var. viii. 27, for खाइइ), H. खा, and so in all. Gipsy *khaes*, Kash. *khyas*, Sloghalese *kanard*.¹

Skr. √ चर्व "chew," चर्वति, Pr. चअइ, H. चाव, P. चइ, S. चव, G. M. चाव, O. चोवा, B. चाव.

Skr. √ पठ् "read," पठति, Pa. *id.*, Pr. पढइ, H. पढ़ (parh), P. M. G. *id.*, S. पढइ (which is only their way of writing पढ), B. पढ, O. पढ़.

Skr. √ प्रच्छ् "ask," प्रच्छति, Pa. पुच्छति, Pr. पुच्छइ, H. पूछ, P. पुच्छ, G. B. *id.*, M. पुस् (see Vol. I. p. 218), O. पुछ, पचार.

Skr. √ मार्ग (and मृग) "seek," i. मार्गति, x. मार्गयति, Pa. मग्गति and मग्गेति, Pr. मग्गइ, H. मांग, P. मंग, S. मङ्ग (*mang*), G. M. माग, B. मांग, O. माम.

¹ Childers, in J.R.A.S. vol. viii. p. 146.

Skr. √ रक्ष "keep," रक्षति, Pa. रक्षति, Pr. रक्षद्, H. रक्ष "keep," also simply "to put," पोची को पीठे पर रखो "put the book on the stool," P. रक्ष, S. रख, G. M. B. राख, O. रख, Singh. *rahinard*.

Skr. √ कथ् "say," कथयति, P. कथेति, Pr. कथद्, कहेद्, H. कह, P. S. B. O. *id.* In M. it is wanting. G. केह, Singh. *kiguard*.

Those roots which belong to other conjugations are almost always reduced to the Bhū type, even if Prakrit retains any of the conjugational peculiarities the moderns do not. They take in most instances the root-form of the present as it occurs in Prakrit, and keep it throughout. Instances are :

Skr. √ ज्ञा "know," lx. जानाति, Pa. *id.*, Pr. ज्ञाणाति, also जानद् (Pr. keeps ज्ञा throughout, but it and Pa. occasionally drop the initial, having ज्ञाणादि, etc.), H. B. जान, the rest ज्ञा. Gipsy *janava*, Kash. *zāna*, Singh. *dannard*.

Skr. √ कृ "do," viii. करोति, Pa. *id.* (see § 1 and § 4), Pr. कुणद् and करद् and the stem कर is adopted in most tenses. The moderns universally reject all forms but कर, which they use throughout except in the p.p.p., which is the phonetic equivalent of Prakrit (see § 48).

Skr. √ श्रु "hear," v. श्रुनोति, Pa. सुनोति, मुनाति, Pr. सुनद्, H. सुन, and in all सुन or सुण.

Skr. √ आप "get," v. आप्नोति (but also I. आपति), Pa. आपुनोति, आपुनाति and आप्योति, Pr. (see § 5) आवद्, seldom used alone. Old H. आप्य "to obtain," also used in the sense of giving.

अप्य मत्ति सरसे सवल ॥

"Having obtained wisdom and the aid of Sarasag (Saraswati)."

—Chand, Pr. R. I. xv.

Also G. आप "to give," which is the ordinary word in that language, may be from this root or from अप् (अ). Far more common is the compound with प्र = प्राप, Pa. as above, Pr. पाउणद् and later पावद्, Old H. and P. पाउ, H. पाव and पा, S. पा, O. *id.*, G. पाम, M. पाव, B. पावो. In all in the sense of finding, getting, obtaining.

Skr. √ ग्रह "seize," ix. गृह्णाति. The treatment of this root is peculiar. Pa. for the most part takes a form ग्रह्, and Pr. generally गेग्रह्. Some of the principal tenses are given here.

	SKR.	PA.	PR.
Pres.	S. 3. गृह्णाति	ग्रह्णाति, ग्रह्णति	गेग्रह्
Åtm. Pres.	S. 1. गृहे	" "	गेग्रहे
1 Aor.	S. 3. अग्रहीत्	अग्रहि, अग्रहि	"
Impv.	S. 2. गृहाम	ग्रह, ग्रहहि	गेग्रह, गेग्रह
	S. 3. गृह्यातु	ग्रहदु	गेग्रहदु
Impr. Åtm. P.	2. गृहीध्वे	ग्रहद्वो	गेग्रहध्व
Pat.	S. 1. ग्रहीष्यामि	ग्रहिस्	गेग्रहिस्
	S. 3. ग्रहीष्यति	ग्रहिस्सति, ग्रहेस्सति	गेग्रहिस्सद्
Infia.	ग्रहीतुं	ग्रहितुं	गेग्रहिदुं, ग्रहिदुं, चेत्तु
P.p.p.	ग्रहीत	ग्रहितो	ग्रहिदो, गिहिदो
Gerund	ग्रहीत्वा	ग्रहित्वा	गेग्रिच्च, चेत्तुन

There are thus two types in Pa. *ganh* and *gah*, and three in Pr. *geph*, *gah*, and *ghe*. The double *t* in *ghettum* and *ghettāna* arises, I fancy, from *e* being short in Pr., and is not an organic part of the word (Var. viii. 15).

In the modern languages H. has ग्रह् as an archaic and poetic word. P. also ग्रह. But M. चे "take," is very much used, as also S. गिन्ह, and O. घेन. the other languages prefer the stem जे from लभ्. Singh. *gannaed*, perhaps Gipsy *gelano*, is connected with this root, though it means rather "to bring." (Paspatis, p. 241.)

§ 15. Some Sanskrit roots ending in vowels have undergone curious and interesting changes in the modern languages. Such is Skr. √ दा "give," iii. ददाति. This is one of the primitive Indo-European race-words, and being such we probably have not got it in its original form in Sanskrit. With the idea of giving is intimately connected that of dividing, or apportioning, and we find in Sanskrit several roots with this meaning, all of which seem to point back to some earlier

common root which has been lost. Thus we have √दा, iii. ददाति "give," √दा or दी, ii. दाति and iv. दति "divide," √दाय, i. दायते and दे i. दयते. Some grammarians, misunderstanding a rule of Panini's about reduplication, have imagined a √दद, i. ददते, but this does not seem to be entitled to a separate existence.¹ It is also to be observed that in some roots in *d* there are traces of a form in *e* or *ai*, which may perhaps be the older form, as गा and गे "to sing," ध्या and ध्ये "to meditate," म्लाय and म्ल्ये "to languish," क्षाय and क्ष्ये "to wither," वा and वे "to rescue," माय and मे "to measure." Also roots ending in *d* exhibit in the course of conjugation many forms in which the root-vowel is changed to *i* or *e*. It is not within our scope to do more than hint at all these points, as possibly accounting for the fact that at a very early stage the root दा began to be superseded by दे, and that in the modern languages the universal form is *DE*. The principal tenses in Sanskrit, Pali and Prakrit are here shown together.

	SKR.	PA.	PR.
Pres.	S. 1. ददामि	ददामि, देमि, दम्मि दज्जामि	देमि
	S. 3. ददाति	ददाति, देति, दज्जति	देर, दर
	P. 1. ददाः	दम्म, देम	देमो
	P. 3. ददति	देति	देति
Impr.	S. 2. देहि	देहि	देहि
	S. 3. ददातु	देतु	देउ
Âtm.	P. 2. दद्ध	देष, ददाष	देध
Fut.	S. 3. दास्यति	दस्सति	दरस्सर, दाहर
Inf.	दातुं	दातुं	दाउं, देउं
Pres. Part.	ददत्	ददन्तो, देन्तो	देतो (देन्तो ?)
P.p.p.	दत्त	दिन्नो	दिणो
Gerund	दत्त्वा	दत्त्वा, दाय, ददित्वा	दाकण, दद्या, दरष

¹ Westergaard, *Rad. Sanskr.* p. 6, note.

Childers thinks the form *deti* has arisen either from Sanskrit *dayate*, or from confusion with the imperative *detu*. The form *dajjati* he, with great probability, considers as a future on the analogy of *dekh* (see § 4). In Çauraseni Prakrit the form *दे* is used throughout (Var. xii. 4), as also in the moderns. H. *दे*, P. M. G. *id.*, S. *दिष*, B. alone has *दा*. O. *दे*, shortened in some tenses to *दि*. Gipsy *daca*, Kash. *dyun*, Singh. *denara*. This is one of the few irregular verbs in the modern languages; being subjected to numerous contractions, and retaining several early Tadbhava forms.

Further examples are :

Skr. √ पा "drink," I. पिवति [Vedic पाति, there is also √ पो, iv. पोयते], Pa. पिवति and पिब°, Pr. पिबइ, H. पो, S. and B. पि, in all the rest पो. Gipsy *pidca*, Kash. *chyun*, perhaps through an old form *pyun*, Singh. *bonava*, p.p.p. *bl*.

Skr. √ नी "lead," I. नयति, Pa. नयति, नेति, Pr. नेइ, नेइ (pres. part. नयंतो = Skr. नयन्, fut. नयिस्स = Skr. नेयानि, Impv. नेइ = Skr. नय). Used in the moderns only in composition, thus—

(a) With आ = आनी "bring," Pa. आनेति, Pr. आणेइ, H. आन "bring," in all the rest आण. Kashm. *anus*, Gipsy *andca*.

(b) With परि = परिनी "lead round the sacrificial fire during the marriage ceremony," hence, "to marry," Old-H. परण, परना, P. परनाइ, S. पर्ण, G. M. परण.

Skr. √ डी "fly," with उड = उड्डी "fly up," I. उडुयते, iv. उडुयते, Pr. उडुइ, H. उड (or) "to fly," and so in all. S. has उडिर, probably a diminutive. Kashm. *wuden*, Gipsy *arydea*.

The root या "to go," was mentioned above; with the preposition आ forming आया, it means "to come," and it is from this word that the following are apparently derived:

Skr. आया "come," II. आयाति, Pa. *id.*, Pr. आयाइ, आइ, H. आ "to come," P. *id.*, G. आव, M. ये, Gipsy *aydea*, Kash. *yan*. The B.

आइस, O. आस, S. अच seem to come from आगच्छति, but both in H. and O. one often hears आ, thus O. *āilā* or *dilā*, "he came," and S. makes the imperv. *āu*, so that there is some confusion between the two roots.

In the roots ending in long *i* the modern languages have words descended from compound verbs only, and in them the final vowel of the root has dropped out altogether, while in roots ending in long *a* there is a tendency to soften the final vowel into *i* or *e*.

§ 17. A few words must be given to a verb which has been somewhat hotly discussed of late. In all the modern languages except perhaps M., the idea of seeing is expressed by *dekh*. Kashmiri has *deshun*, Gipsy *dikāva*, and Singhalese *dikanava*. The root is in Sanskrit √ दृश्, but the present is not in use; instead of it classical Sanskrit uses पश्यति, from which M. derives its verb पाह्. Marathi stands alone in using this stem, instead of *dekh*. From √ दृश् comes future द्रक्षति, and it is from this future that Childers derives the Pali दक्खति. He shows¹ that in the earlier Pali writings it is always used in a future sense, and only in later times becomes a present. As I hinted above (§ 4, p. 16), it is very probable that the vulgar, missing in this word the characteristic *issā* of their ordinary future, considered it a present, and made a double future *dakkhissati*. A similar process has been shown to have taken place in several verbs in Prakrit. Pischel draws attention to a fact pointed out in Vol. I. p. 162 of this work, that there is much similarity between *dekh* and the Prakrit *pekhh* from Sanskrit प्रेक्ष्. He, however, goes so far as to assume that the word *dekh* was unknown to the authors of the dramas, that they used *pekhh*, which has been changed to *dokhh* by the copy-

¹ In Kuhn's Beiträge zur vergleichenden Sprachforschung, vol. vii. p. 130. Pischel's article is in the same work.

ists who heard this latter word used round them every day, while they did not know of *pekh*. Unfortunately for this ingenious theory, it happens that the word *pekh* is extremely common in Hindi, Bangali, and Panjabi literature of the middle ages, and is still used in many rustic dialects of Hindi. The idea of a northern Indian scribe not knowing *pekh* is quite untenable. Weber (*Prakrit Studien*, p. 69) has a long article on this subject, controverting the views of Childers as supported by Pischel. The learned professor would derive *dekkh* from the desiderative of दृश्, which is दिदृक्षते, but I am unable to follow the arguments adduced, or to see how a word meaning "to wish to see" should come to mean "to see." Nor do there appear to be any actual facts in support of this theory, such as texts in which the word occurs in a transitional state of meaning or form. The few desideratives that have left any traces in modern times retain the desiderative meaning, as *piyāsā* "thirsty," from *pīpāsa* (see Vol. II. p. 81). However, I must say to the learned disputants—

"Non nostrum inter vos tantas componere lites."

For my own part the impression I derive from the controversy is that *dekh* is derived through *dekkh* from *dakkh*, which is Sanskrit future दृक्षति turned into a present by a vulgar error. The idea suggested by me (in Vol. I. p. 161 *et seqq.*) must be modified accordingly. It was not so entirely erroneous as Pischel thinks, for Sanskrit श् represents an older क्, which seems to be preserved in the future.

§ 18. The examples adduced in the preceding sections will have sufficiently illustrated the most salient peculiarities in the formation of the ordinary single verbs whether neuter or active, and I now pass on to the more difficult subject of the double verbs. As I mentioned before, there is a very large class of these; they appear in two forms, one of which is active and

occasionally even causal, the other is neuter or passive intransitive. It is after much consideration that I have come to the conclusion that this is the right way to regard them. It might be said that the forms which are here spoken of as neuters are really passives, and a rule might be laid down that these languages often form their passive by what the Germans call *umlaut* or substitution of weaker vowels. Childers in fact takes this view as regards Singhalese in the article already quoted (J. R. A. S. vol. viii. p. 148). I do not know how the matter may stand in Singhalese, but it is certainly open to much objection as regards the Aryan languages of the Indian continent. The neuters differ from the actives in two ways in the seven languages, either by a change in the final consonant of the stem or by a change in the vowel only. The latter is by far the more frequent. We must not be misled by the accident that many of these neuters can only be translated into English by a passive; that is the peculiarity of our own language, not of the Indian ones. In German or in the Romance languages they can be rendered by the reflexive verb. Thus H. खुलना is "to open," i.e. "to open of itself," "to come undone," "to be opened," while खोलना, the corresponding active, is "to open," i.e. "to break a thing open," "to undo." Thus द्वार खुलता "the door opens," is in German "die Thür öffnet sich," in French "la porte s'ouvre." While द्वार खोलता "he opens the door," is in German "er öffnet die Thür," in French "il ouvre la porte." So that फिरना is "sich umkehren," while its active फिरना is "umkehren (etwas)." In English we use verbs in a neuter as well as in an active sense, relying upon the context to make our meaning clear.

Moreover, all the languages have a passive, in some a regularly formed derivative from Prakrit, in others a periphrastic arrangement. It is true that, owing to the large number of neuter stems, this regular passive is not very much used; but it is there nevertheless, and would not have been invented had

forms which I regard as neuters been true "umlautend" passives.

Of the double verbs, then, as I prefer to call them, some differ only in the vowel, and the difference consists in this that where the vowel of the neuter is always short, as *a*, *i* or *u*, the corresponding active has *ā*, *ē* or *ō*, occasionally *ī* or *ū*. As types may be taken, H. *kaṭā*, *n*, and *kāṭā*, *a*; *phāṇā*, *n*, and *phāṇā*, *a*; *khulā*, *n*, and *kholā*, *a*; *līṇā*, *n*, and *līṇā*, *a*; *gūṭhā*, *n*, and *gūṭhā*, *a*. Of the other class, in which the final consonant differs, there are so many varieties, that it will be better to discuss them separately. Sindhi has the largest number of them, and it is with Sindhi therefore that we must begin.

§ 19. Trumpp (Sindhi Gr. p. 252) gives a list of these verbal stems, but it would have been out of place for him to have offered any analysis. The following verbs I take from him, but the explanations are my own. The first group consists of these verbs.

(1.) Neuter ending in झ.

Active ending in थ.

1. बझणु "to be bound."

बंधणु "to bind."

2. बुझणु "to be heard."

बुंधणु "to hear."

3. रझणु "to be cooked."

रंधणु "to cook."

1. Skr. √ बंध, ix. बध्नाति, Pa. बंधति, Pr. बंधद्, whence S. बंध, H. बांध, P. बद्ध. In all the rest बांध *a*. Skr. passive is बध्यते, whence Pa. बध्यति, Pr. बध्यद्, S. बध्य, H. बध्य, used as a hunting term "to be caught," also "to stick, adhere," P. बद्ध *a*. Here, though undoubtedly derived from the passive, the stem बझ is really a neuter or passive intransitive and its conjugation closely resembles the active. There is a regular passive S. बंधिष्यणु.

2. Skr. √ बुध "to know," i. बोधते, iv. बुध्यते, from the latter come Pa. बुध्यति and Pr. बुध्यद्, whence S. बुध्य, originally "to know," but now meaning "to be heard," H. बुझना "to understand," is active. So also

O. वृश्च, B. वृश्च, G. वृश्च. But M. वृश्च is both *a* and *u*. The form of the *iv.* conjugation is identical with the passive, hence S. makes वृश्च a neuter and वृध is probably due to a false analogy with वध.

3. Skr. $\sqrt{\text{रध्}}$ or $\sqrt{\text{रध्}}$ I. रंधति originally "to destroy," but in moderns always "to cook," Pa. *id.*, Pr. रंधर, S. रंध, H. रंधि *a*, and so in all but P. Passive रंधते, Pa. रन्धति, Pr. रन्धर, S. रन्ध, not found in the others.

(2.) Neuter in भ.

Active in ह.

- | | |
|----------------------------------|----------------------------|
| 1. लभणु "to be got," | लहणु "to seize." |
| 2. यमणु "stuprari" (de muliere), | यहणु "stuprari" (de viro). |
| 3. दुमणु "to be milked," | दुहणु "to milk." |

1. Skr. $\sqrt{\text{लभ्}}$ "to get," I. लभते, Pa. लभति, Pr. लहर (भ=ह Vol. I. p. 268), S. लह, Old H. लह, H. ले, P. लहि and ले, G. ले, M. ने, O. ने, B. लयो, all *a*. Pass. लभ्यते, Pa. लब्धति, Pr. लब्धर, S. लभ, Old H. लब्ध, not in the others.

2. Skr. $\sqrt{\text{यम्}}$ "coire," I. यमति, Pr. यहर, S. यह, Pass. यभ्यते, Pr. यब्धर, S. यभे. Not in the others, except perhaps M. यवणे, where the aspiration has been thrown back on the य.

3. Skr. $\sqrt{\text{दुह्}}$, II. दोग्धि, Pa. दोहति, Pr. दोहर and दुहर, S. दुह, H. दुह and दोह, and so in all *a*. Pass. दुह्यते, Pa. दुह्यति (Childers writes *duyhati*, which can hardly be expressed in Devanagari letters), Pr. दुन्धर. From this we should expect S. दुधे. The form दुभे recalls a similar one in Jaina Pr. सिब्धर for सिन्धर (Weber, Blaug. 389, 429), Skr. सिध्यते, but this seems to rest upon a doubtful reading of one of those obscure composite characters sometimes found in MSS. written with the thick Indian reed pen. See also Cowell's Var. viii. 59, note.¹ Possibly we have here again a false analogy with लभ, like वृध with वध.

¹ Hemachandra collects a number of passives in *lā* from roots ending in *ā*, dābhāi, lābhāi, vābhāi, rābhāi, from dah, lā, rah, ruk (or ruddhī?).—Pischel, Ben., iv. 245.

(3.) Neuter in द्वा.

Active in ह.

इद्वणु "to be envious,"

इहणु "to torment."

Skr. √ दह "burn," I. दहति, Pa. दहति, Pr. दहर, S. डह, H. डाह,
दाह, Pass. दह्यते, Pa. दह्यति (Childers *dayhati*), Pr. दज्ज, S. डझ.

(4.) Neuter in ज्.

Active in ज, ण, न.

1. भज्जणु "to be broken,"

भजणु "to break."

2. भुज्जणु "to be fried,"

भुजणु "to fry."

3. छिज्जणु "to be plucked,"

छिनणु "to pluck."

4. सुज्जणु "to be heard,"

सुणणु "to hear."

5. खज्जणु "to be raised,"

खणणु "to raise."

1. Skr. √ भञ्ज "break," vii. भनक्ति, Pa. भञ्जति, Pr. भञ्जर; ञ् becomes
in S. ज, hence भज, Pass. भज्यते, Pr. भज्जर, S. भज्ज (ज् = ज), H. भञ्ज
and भज.

पुरुषात्मानं भञ्जे किति हान ॥

"Manliness is broken, fame destroyed."—Chand, Pr. R. i. 172.

P. मज्ज, G. भाज.

2. Skr. √ भुज्ज or भुज्, i. भुज्जते, vi. भुज्जति, Pa. भुज्जति. Pr. would
probably be भुज्जर. I have not met the word. भुज्जर (Bhâg. 278) is
from भुज् "to enjoy," S. भुज postulates a Pr. भुज्ज. In the other lan-
guages the *n* occurs. H. भुन "to fry," and भून, P. भुन्न, G. भुव, M.
भाज, but also भुज्ज, O. भाज, B. *id.*, Pass. भुज्जते, which would give
Pr. भुज्जर, whence S. भुज्ज, but the whole stem is somewhat obscure.
P. भुज्ज *n*.

3. Skr. √ छिद् "cleave," vii. छिनत्ति, Pa. छिन्दति, Pr. छिन्दर
(Var. viii. 38), whence S. छिन by the process रन = रण्डा (Vol. I. p. 209),
Pass. छिद्यते, Pa. छिद्यति, Pr. छिज्जर, S. छिज्ज.

4. Skr. √ श्रु "hear," which, as already explained, is always सुण in
Prakrit and in modern languages. Pass. श्रूयते, Pa. सूयति or सुयति,
Pr. generally सुनिज्जर (Var. viii. 57), also सुजर, but a form सुज्जर is
also possible, whence S. सुज्ज.

5. Skr. $\sqrt{\text{खँद}}$ "rise," I. खँदति, which would give a Pr. खण्डर, whence S. खण, Pass. खण्यते, Pr. खण्णर, S. खण. This stem does not seem to occur in the other languages, it is peculiar to S., and must not be confounded with खण्ण "to dig," from Skr. $\sqrt{\text{खन्}}$, nor with Skr. खण्ड "to divide."

(5.) Neuter in स.

Active in ह.

1. कुसण् "to be slain,"

कुहण् "to slay."

2. नमण् "to be rubbed."

महण् "to rub."

3. जूसण् "to be scorched."

जूहण् "to scorch."

4. मुसण् "to suffer loss."

मुहण् "to inflict loss."

1. Skr. $\sqrt{\text{क्षप}}$ and $\sqrt{\text{क्षुप}}$ "tear" "drag," I. क्षपति, Pr. क्षसर, S. क्षह, (स = ह, Vol. I. p. 259), Pass. क्षप्यते, Pr. would be क्षुसर, whence S. क्षस, by rejection of one *s*. Persian کُشتن "to kill."

2. Skr. $\sqrt{\text{घृष्}}$ "rub," I. घर्षति, Pr. घसर, S. मह, Pass. घृष्यते, Pr. घिसर and घमसर, S. गस. The other languages have a different series of stems. H. घस and घिस, *s* and *a*, घसीट, *a*, P. *id.*, G. घस and घसट, *a*, M. घास, घसट, घांस *s* and *a*, O. B. घस.

3. Skr. $\sqrt{\text{जूप}}$ "burn," I. जूपति, Pr. जूसर, S. जूह, Pass. जूष्यते, Pr. जूसर, S. जूस.

4. Skr. $\sqrt{\text{मुष्}}$ "rub," I. मुषति, Pa. मुसति, Pr. मुसर, S. मुह, Pass. मुष्यते, Pr. मुसर, S. मुस.

There are several other pairs of stems which exhibit special types; all, however, are explainable by the above noted process. Thus—

(6.) Neuter in प.

Active in ह.

कुपण् "to be touched,"

कुहण् "to touch."

Skr. $\sqrt{\text{कुप}}$ "touch," I. कुपति, Pa. *id.*, Pr. कुपर, *प* being unsupported goes out and *ह* is employed to fill up the hiatus, giving S. कुह. Pass. कुप्यते, Pr. कुप्पर, whence S. कुप, by rejection of one *प*. In the other languages only the active is found. Old-H. कुह, H. कू, P. कुह and कूह, G. कु, कू, को, O. कु, B. *id.*

§ 20. There is a group of words running through nearly all the seven languages in which the divergence between the two members of each pair is slighter than that just discussed. It consists in the final consonant of the neuter being the surd cerebral ट, while that of the active is the sonant ढ; the neuter at the same time has the simple short vowel while the active has the corresponding guna vowel.

The words are in Hindi,

NEUTER.	ACTIVE.
1. छुट "get loose,"	छोड "set free."
2. टुट (तुट) "fall in pieces,"	टोड (तोड) "break."
3. फट "burst, split,"	फाड "tear."
4. फिट "be discharged,"	फेड "discharged."
5. फुट "be squashed,"	फोड "squash."
6. जुड "be joined,"	जोड "join."

The process in these words differs somewhat from that in the Sindhi stems in the last section, as will be seen from the following remarks.

1. Skr. √ कृट् (also चुट्, चुंट Westernard, Rad. Skr. p. 128) "to cut," vi. कृटति, but the Bhl̥ type would be छोडति, Pr. छोडर, H. छोड, and so in all except M., which has सोड, with its usual change of कृ to स (Vol. I. p. 218). H., which is pronounced *chhor*, while M. is *sod*, is active, and so is the word in all the other languages. It means "to release, let go, loose." Pass. कृटयते, Pr. कुडर, whence H. कुट, and so in all, but M. सुट. It is neuter and means "to get free, be unloosed, slip out of one's grasp, come untied."

The modern languages appear to have mixed up with this verb one that comes from a totally different root, namely—

Skr. √ कृड् "vomit," vii. कृणक्ति, also i. कर्दति and x. कर्दयति, Pa. कडुति, Pr. कडुर and कडर, Old H. कड, P. कडू, B. खाड, O. *id.*, H. खाड, M. साड. These words all mean "to reject, abandon," and thus

come round to the same meaning as छोड़, with which in consequence B. confuses it. So does Oriya. Even so early as Pall the meaning has passed over from that of vomiting to rejecting, releasing and the like. In modern H., however, छोड़ना retains the meaning of vomiting, and M. साँड़ means "to spill," with secondary senses of "giving up," "letting go."

2. Skr. √ बुद् "break" (s), I. बुदति, IV. बुदयति, Pr. तुडर, H. तूट and टूट, with abnormally long u, P. टुड़, S. टुट, B. *id.*, M. तुट. It is neuter in all and means "to be broken, to break itself." Being neuter in Sanskrit, a new process has to be brought into play, namely, *causal* बोदयति, H. तोड़, and so in all but S. टोड़. It is active, meaning "to break in pieces, tear, smash."

3. Skr. √ स्फट् has three forms, each of which has left modern descendants, and there is a different shade of meaning to each of the three groups.

- (a) √ स्फट् "split," I. स्फटति, Pa. फरति and फलति (ट = ड = ञ), Pr. फलइ and फटइ, H. फट (rustic फाट), P. S. फट and फाट, the rest only फाट, neuter.

Causal स्फाटयति, Pr. फावेइ, H. फाड़ and so in all. This group with stem-vowel A indicates the splitting, cleaving, or rending asunder of rigid objects. Thus we say in H. काठ धूप में फटे "the wood splits, or cracks, in the sun," but फाठ को टांगी से फाड़े "he cleaves the wood with an axe."

- (b) √ स्फिद् "hurt," x. स्फिटयति, but also vi. स्फिटति, Pr. फिटर, H. फिट, and so in all but P. फिट्, neuter.

Causal स्फेटयति, Pr. फिटर and फेडर, H. फेट, फेंट and फेड़, and so in all but B. active. This group, with stem vowel I, implies, gently loosing or breaking up into small pieces. It is used for beating up into froth, winding thread, untying; also metaphorically getting out of debt, discharging an obligation, and in P. injuring.

- (c) √ स्फुट "burst open," I. स्फोटति, vi. स्फुटति, Pa. फुटति,

Pr. फुट् or फुट (Var. viii. 53), H. फुट and फूट, all the rest फुट, except P. फुट्, neuter.

Causal स्फोटयति, Pr. फोडेर, H. फोड, and so on in all but B. फोट. Words with the stem vowel U imply the breaking or bursting of soft squashy things, as a ripe fruit, a flower bud, a boll and the like. Only in M. is there some idea of splitting or cracking, but there also the more general idea is that of squashing, as डोले फुटने "the eyeballs burst."

6. Skr. √ जुट् or जुड, a somewhat doubtful root, looking like a secondary formation from जुञ्. It must have had a definite existence in the spoken language as its descendants show. They appear to have treated it as a neuter pres. जुडति, जुटति. Pa. and Pr. do not appear to know this root, which, however, is very common in the moderns. H. जुट "to be joined," also जुड, and so in all.

Causal जोटयति, H. जोड, and so in all except P. जुट् and जुड, meaning "to join two things together."

These instances suffice to exhibit the nature of the parallel that exists between twin verbs of this class, which is a somewhat limited one.

§ 21. More usual is the difference which consists simply in the change of vowel of which I will now give some examples :

1. Skr. √ तृ "cross over," I. तरति, Pa. *id.*, Pr. तरह, in all तर a "to be crossed over," metaphorically "to be saved."

Causal तारयति "to take one across, save," Pa. तारैति, Pr. तारेह and तीरेह (Var. viii. 70). In all तार "to save." The word is one which belongs chiefly to religious poetry, but its compound form with उद् is a word of every-day use; viz.

2. Skr. √ उत् "descend," H. उतर, and in all except S. It is a, and is used with a very wide range of meanings all akin to

that of coming down; as alight, descend, fall off, drop down, disembark, abate, decrease.

Causal उत्तारयति "take down," H. उत्तार, and so in all except G. and O. Active, meaning "pull down, take off, unload, discharge, cast out."

3. Skr. √ मृ "die," vi. म्रियते, Pa. मरति, Pr. मरइ, H. मर, and so in all.

Causal मारयति, Pa. मारयिषि, Pr. मारेइ, H. मार in all, but not necessarily meaning "to kill." It rather means "to beat"; the sense of killing is generally expressed by adding to मार the ancillary डाल "throw" (see § 72, 12).

4. Skr. √ मृ "move," i. सरति, Pr. सरइ. In H. सर neuter, means "to be completed," and in all it has the general sense of being settled, getting done. In O. to come to an end, be done with, as से कर्म सरि गला "that affair is done with."

Causal मारयति, Pr. मारेइ, H. मार "to finish," and in all. In O. this verb becomes ancillary (see § 72).

5. Skr. √ हृ "seize," i. हरति, Pa. *id.*, Pr. हरइ. This verb is peculiar. H. हर a, "to seize," so also in G. P. B. In these languages it has the sense of winning a game, a battle, or a lawsuit. In M. हर means first to carry off, then to win. In this sense it is active, as त्यागे पहिल्या डावास शंभर रुपये मांडले ते म्यां हरले "In the first game he staked 100 rupees, that I won." When used as a neuter, it means to lose, as मी वाद हरलो "I lost the lawsuit."¹

Causal हारयति, Pa. हारयिषि and हारिषि, Pr. हारेइ, H. हार, and so in all but M. a. In these languages it means to lose at play, etc. M. is here also somewhat difficult, and Molesworth admits that हार and हर are sometimes confused. Thus it is active in the sense of

¹ See Molesworth's Marathi Dict. s. v. हर and हार.

winning, as **म्यां त्वाचे ग्रंभर रूपये हारजे** "I won from him 100 rupees."

The use of the causal in the sense of losing goes back to Sanskrit times, where the meaning is "to cause to seize," and then "to permit (another) to seize," hence "to lose." So also in Prakrit, in *Mr.* 90, the *Samvāhaka* says: **माशुधेयविशमदाए दशमुवणं बूदे हारिदे** (*Skr.* **भागधेयविशमतया दशमुवणं बूते हारितं** sc. *मया*) "By the untowardness of fortune I lost ten *suvarnas* at play." From this and similar instances it would appear that in *M.* it would be etymologically more correct to use **हर** in the sense of winning, and **हार** in that of losing; which usage would be more in unison with that of the cognate languages. In *Kash.* *Adras* is stated to mean both lose and win, but there must be some way of distinguishing the two meanings.

Some more examples may now be given of pairs of words derived from Sanskrit roots ending in a consonant.

1. *Skr.* √ **स्फुर्** and **स्फुर** "tremble," i. **स्फरति**, *Pa.* **फरति**, *Pr.* **फुरर**. If I am right in my derivation, there must either have been a third root **स्फिर** (as in **स्फट्**, **स्फिद्**, **स्फुट्**), or the moderns have softened *s* to *t*, the former is the more probable. *H.* **फिर** = "to turn (oneself)," "to spin round," "revolve," and so in all except *G.* It is perhaps on the analogy of similar roots, and not directly from a causal of **स्फिर**, that all the moderns have **फेर** = "to turn (a thing) round," "to make it revolve."

2. *Skr.* √ **घूर्ण** "to move to and fro" (*n*). Allied to this is **घुण**, i. **घोणते**, apparently unknown in *Pall.* *Pr.* **घोणह**, *H.* **घुल**, *P. M.* **घुळ**, *B.* **घुल**, meaning to be dissolved by stirring in water, as sugar or similar substances, "to melt."

Causal **घोणयति**, *Pr.* **घोणेह**, *H.* **घोल**, *P.* **घोल** and **घोळ**, *G. M. O.*

घोळ, *B.* **घोला** "to dissolve substances in water,"

3. *Skr.* √ **पत** "fall," i. **पतति**, *Pa.* *id.*, *Pr.* **पडर** (*Var.* *vill.* 51), *H.* **पड** "to fall," and so in all.

Causal पातयति. Pa. पातेति, Pr. पाडेर, H. पाड "to fell," and so in S. G. M. H., but somewhat rare in all.

4. Skr. $\sqrt{\text{शृद्}}$ "decay," i. and vi. शीयते, Pr. सडेर (Var. viii. 51), H. सड, and in all "to rot."

Causal शादयति. Pr. साडेर, P. and S. साड "to destroy by decomposition." This root is perhaps connected with Sanskrit $\sqrt{\text{शृद्}}$ "to be sick," whence ड in Prakrit and the moderns.

5. Skr. $\sqrt{\text{नम्}}$ "bow," i. नमते. It is both *a* and *a*-*la* in Sanskrit, but strictly would be active intransitive, as in the moderns. Pa. नमति, Pr. णमड, H. नम and नेव, P. नेउ (neü), S. नेवं, B. नू. O. नुंर, नोड (3) "to bow oneself down," "to prostrate oneself."

Causal नामयति. Pa. नामेति, Pr. णामेड, H. नाव, ना, P. निवा, S. नंवा, B. नाम, मुया, O. मुञ्चार "to bow or bend," used as an active with the words "body" or "head" as objects, H. सीस नावना "to incline the head." द्वार आर पद नावेउ माया। "Coming to the door, bowed his head to (the Guru's) feet."—T. R. Ay-k. 63.

In very common use is the diminutive H. निडड, P. S. *id.*, but in S., meaning "to bury," "press down." M. uses the compound form from Skr. क्षवनमति, Pr. ओणड (p.p.p. ओणओ = क्षवनत, Hāla, 9, Mr. p. 165), M. ओणव and ओणाव *a* "to stoop." Perhaps S. ओना "to listen," *a*, is to be referred to this, from the idea of bending the head to listen.

The following word is full of difficulties, and I am not able to elucidate it clearly.

Skr. $\sqrt{\text{कृष्}}$ "drag," i. कर्षति and vi. कृषति, Pa. कडुति, Pr. करिसर, so, at least, says Var. viii. 11, but in Mr. 233 occurs कडुमि = कर्षोमि. The Skr. p.p.p. is कृष, which would give Pa. and Pr. कडु. Perhaps this is another instance of a verb derived from p.p.p.¹ H. काड *a*, "to drag

¹ Hemachandra gives six popular equivalents of *kṛṣh*—*kaddhai*, *śaddhai*, *andhai*, *apachchhai*, *ayunchhai*, and *dimuchai*, as well as *karisai*.—Pischel, Hem. iv, 187. With regard to the four last, see the remarks on *khamak* in § 22.

out," "extract," "to take something out" (from a box, etc.), P. कड् and खड्, S. कड, G. B. काड, M. O. काड. H. has a corresponding neuter कड "to be taken out," "to flow forth," "issue," which is perhaps from the p.p.p. Var. viii. 40, gives Pr. वेडुर = Skr. वेदति, which affords an analogy for a Pr. कडुर like the Pali, very much used in the compound with निस्; thus—

Skr. निष्कृय, I. निष्कर्षति, Pa. रिक्कडुति "to turn out of doors, expel;" as to Pr. in Mr. 354 occurs सिक्कल "begone!" and in the line above सिक्कालेहि "turn him out." For the change of डू to ल, Var. viii. 41 उड्डेर = उड्डेति affords an analogy, as the change in both words occurs only in composition. Several of the moderns have pairs of words, thus: H. निकल a, "go out," P. निक्कळ, S. निकिर, G. निकळ, O. निकिळ, and H. निकाल a, "turn out," P. निक्काल, S. निकार, निकेर. In the above quoted passages of Mr., the scholiast renders सिक्कालेहि by निष्काशय, erroneously for निष्कासय, from निस् and कस्, but this is not the etymological equivalent, for √ कस् with निस् has left a separate set of descendants, whose meaning is, however, almost the same as निकल and its group. Thus we find H. निकस a, "go out," P. निक्कस, G. id., and H. निकास a, "to turn out," often used in a milder sense, "to bring out," the substantive निकास is frequently used to mean the issue or completion of a business, also as a place of exit, as पानी का निकास नहीं "there is no exit for the water," P. निक्कास.

§ 22. As exhibiting the phonetic modifications of the root syllable, as well as the treatment of roots in respect to their phase, whether active or neuter, the list which is here inserted will be useful. In the next section will be found some remarks on the deductions to be made from these examples.

Skr. √ तप् "heat," I. तपति, Pa. id., Pr. तवर. In Sanskrit it is both a and s, so also in Pali. In the latter the passive तप्यति (Skr. तप्यते) means to be distressed, to suffer, and in this sense Pr. uses तवर, as in

H. टल *a.* "to give way, yield, totter," P. G. M. टळ, S. टिल, टर, B. टल "to slip, stagger," O. टळ *id.* Causal टालयति, H. टाल *a.* "to drive away," टेल "to push," P. टाळ, G. M. *id.*, S. टार, B. टाल "to delay, put off, evade," O. टाळ *id.*

Skr. √ तुल, तुल "raise," "weigh," i. तोलति, x. तुलयति and तोलय°, Pa. तुलेति, Pr. तुलइ, H. तोल, तोल *a.* "to weigh," P. तोल, S. तोर, G. *id.*, M. तुळ, both *a* and *u*, B. तोला and तुल, O. तोल. Pass. तुल्यते, would be Pr. तुलइ, H. तुल *a.* "to be weighed, to weigh," i.e. to be of a certain weight, P. *id.*, S. तुर, B. O. तुल.

Skr. √ स्तम्भ "prop," v. स्तम्भोति, ix. स्तम्भाति. Pa., the verb is not given in Childers, it would be स्तम्भति, Pr. स्तम्भइ, H. स्तांभ, also spell चाम and स्तांभ *a.* "to prop, support," P. स्तम्भइ or स्तम्भ; S. स्तंभ, G. स्तांभ, B. चामा, O. चाम. Pass. स्तम्भ्यते; there is also an *Ātmane* conjugation स्तम्भते. From this latter probably H. स्तंभ, चम, स्तंभ *a.* "to be supported, to be restrained," hence "to stop, cease," P. स्तंभ, S. चम, G. स्तंभ, M. चम, चाम, स्तांभ. It also means "to stand," especially in G.

The p.p.p. is स्तम्भ, Pr. खड्ड, whence Old-H. ठाढा "standing," as गोपी जन बोधिक द्वे चितवति सख ठाढी ॥ "All the Gopis on the terrace standing and looking."—S. S. Bāl IIIa, 47, 14. On the analogy of this the modern colloquial H. खडा is probably to be derived from a Pr. खड्ड, from स्तम्भ, √ स्तम्भ. P. has खडा *adj.* "standing," whence a verb खड "to stand."

Skr. √ वृत् with नि, निवृत्, I. निवर्त्तते "to come to an end, be finished," Pr. शिवनइ, means "to return," as *plattai jovanam nikkantam* = न निवर्त्तते यौवनं अतिक्रान्तं "Youth when once passed does not return again" (Hāla, 251), but we may postulate a form शिवदुइ, whence H. निवड *a.* "to be finished, to be done with, used up," P. *id.*, S. निविइ or निविर, B. निवड, O. *id.* On the analogy of similar words H. निवाड, निवेड *a.* "to finish," P. *id.*, S. निवेर, B. O. निवाड, it might also come from निपतति = Pr. शिवडइ, but the meaning is less appropriate.

Skr. √ घट् with वि, विघट, I. विघटते "be destroyed," Pa. विघटति, Pr. विघट्. With loss of aspiration, H. विगड् *a*, "to become useless, to be spoilt," P. *id.*, S. विगिड, G. वगड, M. retains the aspirate विघड, B. O. विगड. Causal विघटयति, but Pa. विघाटेति, with characteristic long vowel of causal, Pr. I have not found; it would be विघाडेर, H. विगाड *a*, "to spoil," P. S. G. *id.*, M. विघाड.

There are, as might be expected, many verbs, and those often the very commonest, in the modern languages, which cannot be traced back to any Prakrit stem with any degree of certainty. Others, too, though they preserve traces of a Prakrit origin, cannot be connected with any root in use in Sanskrit. These are probably relics of that ancient Aryan folk-speech which has lived on side by side with the sacred language of the Brahmins, without being preserved in it. Sometimes one comes across such a root in the Dhātupāṭha, but not in literature; and occasionally the cognate Aryan languages of Europe have preserved the word, though it is strangely missing in Sanskrit. An instance in point is the following:

H. लद् *a*, "to load," P. लह्, more from analogy than anything else, S. लड. In all the rest लद्.

H. लह् *a*, "to be loaded;" not in the others. Bopp (Comp. Gloss. s. v.) suggests a derivation from √ अम्, p.p.p. शान्त "tired," or √ क्षम्, p.p.p. क्षान्त "tired." This would seem to be confirmed by Russian *klad* "a load," *klazha* "lading," *na-kladevat* "to load;" Old-High-German *hladid*, Anglo-Saxon *hladan* "to load," *hlad* "a load," Mod. High-German *laden*. The wide phonetic changes observable between various members of the great Indo-European family so seldom occur between Sanskrit and its daughters, that I am disposed to think that neither Skr. शान्त nor क्षान्त could well have given rise to a Hindi *ladd*. It seems more probable that this is a primitive Aryan root which has, for some reason unknown to us, been left on one side by classical Sanskrit.

Of doubtful, or only partially traceable, origin, are the following:

H. खोद and खोड *n*, "to dig," P. *id.*, S. खोट, खोड, G. खोद, M. खोड, बुड, B. खुद. And H. खुद, खुड "to be dug." With this pair I propose to connect H. खोल *s*, "to open," P. खोरह, खुडल, S. G. M. खोल, B. O. खुल, and H. खुल *n*, "to come open," P. खुडह, S. खुल, G. M. *id.* Pr. has a verb खुड, and this root is also given in the Dhātupāṭha as existing in Sanskrit, though not apparently found in actual use. The Sanskrit form is probably √ खण्ड् "to divide," with which another root खन् "to dig," has been confused, unless, indeed, the noun खुण्ड, "a portion," is formed from √ खन्, and is the origin of √ खण्ड्. The Prakrit occurs in Mr. 346, कुचमि खुडिदपाशं कथयकलशं च हुडनं "Like a golden pot with its string broken, sinking in a well," where the scholiast renders कुमे खण्डितपाशं, etc. Also in Mr. 219, खुडुरददिनखरे गोबालखदारखो खुडिदो, "While the sun was only half risen the cow-herd's son escaped," i.e. broke out. It is probable that the two senses of digging and opening in the two modern pairs of verbs arose from a primitive idea of breaking or dividing.

H. बुड or बुड *n*, "to dive, be immersed, sink," S. बुड, G. बुड, M. B. O. *id.*, and H. बोड *s*, "to drown, to immerse," S. *id.*, बोड occurs in M. and S., not as active of बुड, but for मोड (मुड्) "to shave." Apparently, an inverted form of this stem is the more commonly used H. दुब *n*, "to sink," used in all; it has no corresponding active form. The origin of these words is to be found in Pr. बुड् (Var. viii. 68), which appears to be the same as *vuḍḍa* in *daravēḍḍavēḍḍanivēḍḍa mahavaro*, "(With) the bee a little dipped, (quite) dipped, undipped" (said of the bee clinging to a kadam branch carried away by a stream).—Hāla, 37.¹ The Sanskrit lexicographers give a √ बुड् "to cover," but no instances of its use. The reversed form *ḍubb* is also in use in Prakrit, as in the quotation

¹ *Buḍḍaḥ = masjati*.—Pischel, *Hem.* iv. 191.

from Mr. 346, given under खोड above, where the speaker is a Chandāla or man of the lowest caste, who may be held to speak a low form of Apabhraṃṣa. It is perhaps another of those Aryan roots which Sanskrit has rejected. The classical language uses instead *mayi*, Latin *mergere*.

H. भेट, भेंट *a*, "to meet" (to join any one), भेड *a*, "to close, shut," P. भेड, S. भेट and भीड, G. भेट, M. मिड, both *a* and *u*, B. भेट, भेड, O. भेट; and H. मिड "to stand close to, to be crowded," P. *id.*, S. G. *id.*, M. भेट, B. मिड "to approach near to," O. मिड "to be tight." The general idea is that of closeness or a crowded state. There is also a substantive भीड "a crowd." From the meaning I was led to suppose (Vol. I. p. 176) a derivation from a Sanskrit p.p. चम्बर्ग "near," which, however, has been disputed. The question must for the present be left undecided.

B. भेट "to efface," P. S. *id.*, and more common H. मिट *a*, "to be effaced, to fail, wear out" (as a writing or engraving), and so in all. Of this stem, all that can be said is, that it is probably connected with मृष्ट "rubbed," p.p. of √ मृश्, though one would expect a Pr. मिड् or मुड्, and H. मोठ. There are two other stems ending in ट, which present nearly the same difficulty, viz.:

H. पिट "to be beaten," ऐसा करोने, तो पिटोने "If you act thus, you will get a beating," P. पिड्, M. पिट, both *a* and *u*, B. and O. पिट *a*, and H. पीट *a*, "to beat," not in the others. In Prakrit there is पिड् "to beat," पिड्दिच्च एदं चेदं विक्खालेहि "Having beaten this slave, turn him out" (Mr. 354, again in the mouth of a Chandāla), and पिड्दिदग्गद्देण विच्च पुणोवि लोड्दिद्वं "I must roll about again like a beaten-jackass" (Mr. 107). Here, unless this is a non-Sanskritic old Aryan root, we can only refer to पिट "ground, broken," p.p. of √ पिष् "to grind," but this is hardly satisfactory, as this root has a descendant, H. पीस "to grind," and पिस *a*, "to be ground."

H. सेट *a*, "to lie," "to be in a recumbent posture," and लिड *a*, "to

wallow," P. लोट, लिट, S. लोट, G. M. *id.* Probably connected with लोट; but there does not appear to be any Prakrit root to which it can be traced. The nearest Sanskrit root is √ लो "to lie down;" लोत्तल = svapiti.—Pischel, Rem. iv. 146.

There is next to be noted a small group of stems ending in च, concerning which also there has been some controversy.

Skr. √ क्री "buy," ix. क्रीणाति and क्रीणीते, Pa. क्रीणाति, Pr. क्रीणइ, H. क्रीन, S. गिन्ह (is not the ह here due to some confusion with Pr. गेयह = यह "take"?), B. O. क्रीन. This is a single verb, the complications occur in the following compound with वि, विक्री "sell," ix. विक्रीणाति, Pa. विद्धिणाति, Pr. विद्धिणइ, S. विक्रीण a, "to sell," O. विक, Gipsy *bikāḍea*. But in H. विक is n, "to be sold, to be exposed for sale," as चावल आज मझा विकता "rice is selling cheap to-day." In M. विक is both a and n, as विकेल तसे पिकेल "when it is ripe it will sell." So also P. S. विक n, "to be sold." For the active H. has वेच sometimes pronounced वेच "to sell," as आज चावल वेचता "he is selling rice to-day." P. वेच, G. वेच, B. वेच. When we remember that all verbs are prone to take the forms of the Bhū type, it is intelligible that विक should mean both "to sell" a, and "to be sold" n, for the Parasmai of the Bhū form would be विक्रयति, and the Ātmane विक्रयते, and the final syllable being rejected as in √ नी and √ डी mentioned above, the stem resulting in both cases would be विक. S. and Gipsy have retained the ण of the Pr. विद्धिणइ. But whence comes the च in वेच?

H. खिच, commonly pronounced खेंच "to pull, drag," is a similar word. P. खिच and खिज, G. M. खेंच, B. खिच and खिच, O. *id.* Also H. खिच n, "to be dragged," B. खिच, खिच "to be dragged or distorted (the face), to grin, make faces, writhes," M. खिच. From the meaning we are led to think of Sanskrit √ ढृष "to drag," and although this root has been shown to have given rise to another pair of verbs *kaṛh* and *kaṛh*, and in composition to *ni-kāl* and *ni-kāl*, yet it is not impossible that, used

In a different sense, it may have originated another set of words like *khouch* and its congeners.¹

H. पड़च "to arrive" *s.*, written in various ways as पड़च, पड़च, पड़च, P. पड़च, S. पड़च, G. पोहच, पोच, M. *id.*, B. पड़च or पड़च, O. पड़च. In the dialects are some curious forms, as Marwari पुम and पुम, which also occurs in Chand, and in Nepali. Chand uses also a form पड़, as दिन दोय मंझ नीके पड़त ॥ "In two days one easily arrives (there)." Pr. R. I. 175. In Old-Gujarati also there is a verb पड़ोत, *s.g.* तऊ कहे नारदने के वखान भाव न पड़ोतो "Says Nala to Nārada, this story does not arrive at mind" (*i.e.* is not probable).—*Premānand Bhat*, in K. D. II. 74. S. पड़चणु has p.p.p. पड़तो, which latter looks as if it were from प्र + सुप्, but this will not account for the च. Hoernle (Ind. Ant. I. 358) derives this word from the old Hindi adverb पड़ "near," and कर "make," assuming a change of क into च; but though this change occurs in the ancient languages, there are only very few and doubtful traces of its existence in mediæval or modern times, and I do not think we can safely base any argument upon so rare a process. Hoernle goes so far as to consider H. पुकार "to call," as the causal of पुम, which he says was (or must have been) anciently पुक. There is another possible derivation from Skr. प्राघूर्ण "a guest," which becomes in H. पाड़ना, but this fails to explain the final च.

Some light may perhaps be thrown on the subject by some stems in the moderns ending in च, for as च arises from द + च, so च arises from त + च (Vol. I. p. 326). Thus:

H. भेज *s.*, "send," P. *id.* Here we have Skr. √ भिद् "cleave," "separate." Causal भेदयति, which would make a passive भेद्यते "he is made to separate," *i.e.* "he is sent away." If we take the active causal as the origin of this word, we must admit an elision of the vowel between *d*

¹ See note to Kṛṣṇa in § 20. The cognate verb *śichā* is also in use in the moderns.

and *y*; or, taking the simple passive भिद्यते, we may assume that there was a neuter भिद्य "to be sent," from which the active भेज् "to send," has been formed; *bhij*, however, is not found.

H. वज् *n*, "to sound," P. *id.*, S. वज् and वज्, G. वज, M. वाज, B. *id.* Also H. वाज् *n*, "to play (music)," and *n*, "to sound." Probably from Skr. √ वद् "speak," causal वादयति, Pa. वदति and वदेति, the passive of the causal is Skr. वाद्यते, Pa. वज्जति "to be beaten," i.e. "to be caused to speak," as *vajjanti bheriya* "drums are beaten." Hence the modern *baj*. The short form *baj* is apparently due to analogy.

§ 23. It is the business of the lexicographer, rather than of the grammarian, to work out the derivations of all the verbs in these languages, and even he would probably find the task one of insuperable difficulty in the present elementary state of our knowledge. It is hoped that the examples and illustrations given above will have enabled the reader to gain some insight into the general principles which have governed the modern languages in the process of forming their verbal stems. To conclude this part of the subject, I will now point out what seem to me to be the laws deducible from the examples above given, and from many others which, to avoid prolixity, I have not cited.

Single neuter stems are derived (i) from the Prakrit present tense of Sanskrit neuter verbs, or (ii) from the Prakrit passive past participle, or (iii) Prakrit has assumed one form for all parts of the verb, which form has been handed down to the modern languages almost, if not entirely, unchanged. Types of these three processes respectively are *ho*, *baith*, and *uph*.

Single active stems are formed from the Prakrit present of active verbs, and in cases where the verb in Sanskrit is not conjugated on the Bhû type, Prakrit usually, and the moderns always, adopt the Bhû type. Here, also, Prakrit has occasionally taken one form of root and used it throughout, and

the moderns have followed the Prakrit. Types of these classes are *parh*, *kar*, and *ghen*.

In the double verbs two leading processes are observable. Where the root is conjugated actively, or is active in meaning in the ancient languages, the modern active is derived from it, and in that case the modern neuter is derived from the Prakrit form of the Sanskrit passive, as in *labhañu*, *lahanu*, or as *chhot*, *chhot*. Where the ancient root is neuter, the modern neuter is derived from it, and in this case the active is derived from the ancient causal, as in *tuf*, *tor*, or *mar*, *môr*.

These rules, if further research should eventually confirm them, do not provide for every modern verbal stem, as there are many whose origin is obscure and doubtful. It is highly probable that as we come to know more about these languages, we shall find out other processes which will throw light upon the method of formation of many new-obscure stems.

It should here also be noted that even where the same stem occurs in the same, or nearly the same, *form* in all the languages, it is not used in the same *phase* in all. Marathi and Sindhi have different sets of terminations for neuter and active, so that the fact of the neuter and active stem being the same creates no difficulty, the distinction of meaning being shown by the terminations. Thus in M. बाढ, if treated as a neuter, would be conjugated thus: Present *gāñhato*, Past *gāñhala*, Future *gāñhet*, etc.; but if as an active, thus: Present *gāñhita*, Past *gāñhileg*, Future *gāñhīl*. In this language, therefore, we often find a verb used either as active or neuter; while in Hindi, which has one set of terminations for all stems, the difference between active and neuter can only be marked by the stem. In several rustic dialects of Hindi, however, and in the mediæval poets, we often find the neuter verb with a long vowel, but confusion is avoided by giving to the active verb the terminations of the causal, thus बढना "to grow big," "increase," makes its active बढाना "to make big," and rustic and

poetical Hindi often uses बाढ़ना for the neuter, as ऐसी देव प्रकट गोवर्धन । जाके पूजे बाढ़े गोधन ॥ "Such a god is manifest in Govardhana, from the worship of whom wealth of cattle increases."—S.S. *Govardhanlīlā*, li. 15, *et passim*. So also बाढ़त जेह्न मृगान्नक सूत ॥ "It grows like the threads of the lotus."—Padm. This subject will be more fully discussed under the causal.

§ 24. Gujarati, as will have been noticed in the examples given in the last section, often wants the neuter stem with the short vowel, but has in its place a form in which *d* is added to the stem, the included vowel of which is short. This form is not incorrectly treated by some grammarians as the ordinary passive of the language. It should, however, in strictness, be recognized as the passive intransitive (that form marked —1 in the scale, § 10).¹ The rules for its formation are simple, in stems, whether neuter or active, having *d* as the included vowel, it is shortened to *a*, as—

वांच "read,"	वंचा "be read."
चांक "mark, test."	चंका "be tested."
संभळ "hear,"	संभळा "be heard."

The shortening does not always take place when the included vowel is *i* or *u*, though from the way in which short and long vowels are used indiscriminately in Gujarati, it is not safe to lay down a hard and fast rule on this point, thus—

शीख "learn,"	शीखा (शिखा) "be learnt."
शीव "sew,"	शीवा (शिवा) "be sewn."

Where the stem ends in a vowel, *व* is inserted to prevent hiatus, as—

म्हा "wash,"	म्हावा "be washed."
खा "eat,"	खावा "be eaten."
बिही "fear,"	बिहीवा "be feared."

¹ Vans Taylor, *Gujarati Grammar*, p. 81, from which most of the following remarks are borrowed, though I diverge from him in some points in which his views seem to be open to correction.

With regard to the meaning and method of using this phase, it appears that its construction resembles that of the neuter, while it implies either simple passiveness, habit, or power. As a simple passive, रामची रावण मरायी "Ravana was killed by Rāma," आ खेतर मां बी बवायु "In this field seed has been sown;" as expressing habit, एतुं कहेवाय हे खर "thus it is correctly said," i.e. "this is the correct way of expressing it;" आ झोकरो मूर्ख जणायहे "this boy is (usually) thought to be stupid;" as expressing power or fitness, तेनाची चलाय नही "he cannot walk," literally "by him it is not walked;" राजा ची अन्याय कराय नहि "a king cannot (or must not) do injustice;" कुवी अमट्टायो माटे एतुं पाणी पीवाय नहि "the well has become impure, therefore its water is not drunk." Some of the words which take this form are, to all intents and purposes, simple neuters in meaning, like *abhaddāgo* in the sentence just quoted, which means "to be ceremonially impure," and points back to a Sanskrit denominative, as though from अ "not," and भद्र "good," there had been formed a verb अभद्रायते "it is not good." So also वपरायुं "to be used," "to be in use," as एक अर्थ ना वे प्रलय वपराय हे "two affixes are in use with one meaning," postulates from व्यापार, a denominative व्यापारयते, or perhaps the causal of वि + आ + पृ = व्यापारयति. This seems to be the real origin of this phase, though some would derive it from a form of the Prakrit passive. At any rate, the two stems just quoted (and there are several others of the same kind) look more like denominatives than anything else, though in others this form inclines more to the passive signification, as भीमक सुता नुं वदन सुधाकर देखीने शोभाय । चन्द्रमा तो पीण पामो आममो संताय ॥ "Having seen the moon-like face of the daughter of Bhīmaka in its beauty—The moon wasted away, having hidden itself in the clouds."—Premānand in K.-D. ii. 74. Here शोभा is "to be beautiful," and looks like a denominative, but संताय has more of a passive or reflexive meaning, "to be hidden," "to hide oneself." Again, दमयंती नुं उदर देखी

सुखायुं सरोवर "Seeing the belly of Damayanti, the lake dried up," (*ib.* ii. 75), literally "was dried up." So also घर ज्वालगुं त्वारे कुबो खोदावे ए अपि केम खोलवाय । "When the house has caught (fire), he has a well dug, how can this fire be put out?" —K.-D. i. 184.¹ The verb खोलवा is also written होल°, and is probably the same as O. खोला "to descend, alight," M. खोहळ "to trickle, flow down," which I take to be from अप + मु = अपसरति, Pr. ओशलर (Māgadhi), and with change of स to ह = खोहल. It is used in the sense of removing oneself, thus: खले ले ओशलध "ho there! get out of the way!" (Mr. 219), and causal ओशलिदा मए शखडा "I have got the cart out of the way," (*ib.* 211) = Skr. अपसारिता. This phrase is conjugated throughout all the tenses, thus खोवायुं "to be lost," Present खोवाए "he is lost," Future खोवागे "he will be lost," Preterite खोवाओ, खोवाणो, or खोवाएलो छे "he has been lost," and in native verbs it is used in the Bhava-prayoga, as a sort of potential, as तेनाथी छोडाव "he can loose," तेनाथी छोडाओ "he could loose," तेनाथी छोडागे "he will be able to loose."

As to the other languages, a similar form is found in the Bhojpuri dialect of Hindi, used as a simple passive, as पकड "seize," पकडा "be seized," as हम पकडाएत बा "I am being seized." In this dialect, however, there are signs, as will be shown further on, of a passive similar to that in use in classical Hindi. In the old Maithil dialect of Bidyapati, which is transitional between eastern Hindi and Bengali, this form is found; thus, सिक्ता जल जेहि चलहि शुकायल "As water poured out on the ground is dried up."—Pad. 984. घरणी जोटायल गोकुलचाँद । "(He who is) the moon of Gokul rolled himself on the earth."—P.K.S. 77. अनु इंदीवर पवने पेलिल खलि भरे उलटाय । "As a lotus pressed down by the wind is tilted by the weight of bees" (var. lect. भुरि = by a swarm).—Pad. 1352.

¹ This is equivalent in meaning to our English saying, "When the steed is stolen, shut the stable door."

There seems to be some difficulty in deducing this form from a Prakrit passive. One of the methods in which the passive in Prakrit is formed is by resolving the *y* of Sanskrit into *ia* or *ia*, Skr. खाद्यते = Pr. खारिइदि; and it is supposed that this इ has become अय, and subsequently आ, but no instances of intermediate forms are found; it would seem, therefore, more correct to suppose that this form originates from the causal of Sanskrit in those instances where the causal characteristics are used to form denominatives, and has from them been extended to other verbs. Neither explanation, however, is quite satisfactory, and the question is one which must be left for farther research.

§ 25. The regular Passive (phase — 2) is found only in Sindhi, Panjabi, and in some rustic dialects of Hindi. It arises from the Prakrit passive in *ijja* (Var. viii. 58, 59). Thus Skr. *grāyate* = *sunijjāi*, *gamyate* = *gamijjāi*, *hasyate* = *hasijjāi*. In Sindhi the passive is formed by adding इज् or ज् to the neuter or active stem.¹ Thus—

पूरण "to bury,"	Passive पूरंण "to be buried."
घटण "to lessen,"	" घटिजण "to be lessened."

A passive is also made from causal stems, as—

विचारण "to lose,"	Passive विचारजण "to be lost."
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Here, also, we find denominatives which have no corresponding active form, and have scarcely a passive sense, as उक्खण्डिजण "to long for," where the causal termination used in Sanskrit for denominatives appears to have been confused with the *ijja* of the passive. Thus Skr. उक्खण्ड "longing," makes a verb उक्खण्डयति "to long for," whence the Sindhi *ukkhandijāṇu*. So also अंगुलिजण "to be entangled," which seems to be from Skr. अङ्गुल, or अङ्गुरि "a finger," whence we may suppose a verb

¹ Traupp, Sindhi Grammar, p. 253.

अङ्गुरयति "to be intertwined (like the fingers of clasped hands)"; डमिर्जसु "to be angry," from डमस "anger," Skr. डमर "uproar," of which the denominative would be डमरयति.

In cases where the vowel of the active stem is long in the imperative, but shortened in the infinitive, the passive retains the long vowel. Thus

पीठ "drink thou," पिबसु "to drink," पीजसु "to be drunk."
 पूठ "thread thou," पुषसु "to thread," पूरजसु "to be threaded."
 धोठ "wash thou," धुषसु "to wash," धोरजसु "to be washed."

A similarly formed passive is used in the Marwāri dialect of Hindi, spoken west of the Aravalli hills towards Jodhpur, and thus not very far from Sindh. Instances are—

करसो "to do,"	करीजसो "to be done."
खावसो "to eat,"	खवीजसो "to be eaten."
लेसो "to take,"	लिरीजसो "to be taken."
देसो "to give,"	दिरीजसो "to be given."
आवसो "to come,"	अवीजसो "to be come."

Thus they say मैं मुं खवीजि नहीं = H. मुझ से आया नहीं जाता "by me it is not come," i.e. "I am not coming." तू मुं खवीजसो नहीं = H. तुम से नहीं खाया जायगा "by you it will not be eaten," i.e. "you will not (be able to) eat it." This passive construction is frequent in the Indian languages, but usually with the negative expressing that the speaker is unable or unwilling to do a thing.¹ The insertion of र instead of व in ले and दे is peculiar and unaccountable.

Panjabi also has a synthetical passive, though rarely used. It is formed by adding ई to the root, and is probably derived from that form of the Prakrit passive which ends in *is*, as

¹ I have to thank Mr. Kellogg, of Allahabad, author of the best, if not of the only really good Hindi Grammar, for communicating this form to me in a letter. I was previously unaware of it.

mentioned above. This form of the passive is only used in a few tenses, thus मारना "to beat," Passive present में मारी जा "I am beaten," Future में मारी जाँगा "I shall be beaten," Potential (old present) में मारी जाँ "I may be beaten."

With these exceptions, there is no synthetic form for the passive in the modern languages. This phase is usually formed by an analytical process. It is not much used, the construction of sentences being more frequently reversed, so as to make the verb active. The large number of neuter verbs also renders a passive for the most part unnecessary. It does exist, however, and is formed by adding the verb जा "to go," to the past participle of the passive, जा doing all the conjugational work, and the participle merely varying for number and gender.

Thus from मार "beat," H. Sing. मारा जाना "to be beaten" *m.*, मारी जाना *f.*, Plur. मारे जाना *m.*, मारीं जाना *f.*, P. मारि जा जाना *m.*, मारी *f.*, Plur. मारे *m.*, मारीं *f.* Gujarati also uses this method side by side with the passive intransitive, as मार्यो जयुं "to be beaten," with the participle varied for gender and number as in the others. M. मारि जा जाये, B. मारा जा रहे, O. मारा जिधा. In these two last the participle does not vary for gender or number.

Occasionally in G. and M. a passive is formed by adding the substantive verb to the past participle, thus M. मारि बांधली होती "the cow was tied," and G. यंत्र क्यों है "the book is made;" such a construction would in the other languages be incorrect, or, if used at all, would have a different meaning altogether.

The use of जाना "to go," to form a passive, seems somewhat unnatural; होना "to be," would occur as the most fitting verb for this purpose. I am tempted to hazard a conjecture that the use of जाना in this way has arisen from the Prakrit passive form in *jā*. This, as we have seen above, has given a regular

passive to Sindhi and Marwari, and it seems possible that the masses who had quite forgotten, or had never known, the meaning of the added *j*, may unconsciously have glided into the practice of confounding it with the *ञ* of the common word **जा**, which would lead them to consider the verbal stem preceding it as a passive participle. Thus a form **मारिजे** "he is beaten," would easily pass into **मारा जाए**, as in modern Hindi. The process must, of course, have been unconscious, as all such processes are, but the supposition does not involve a more violent twisting of words and meanings than many others which are better supported by actual facts.

The non-Aryan party have something to say on this head.¹ They point out that the Dravidian languages, like our seven, largely avoid the use of the passive by having recourse to neuter verbs, and that with them, as with us, the neuter is often only another form of the same root as the active. Indeed, the similarity in this respect is very striking, the process is, to a great extent, the same in both groups, though the means employed are different. The passive does not, strictly speaking, occur in the Dravidian languages; a clumsy effort is sometimes made to produce one, by adding the verb *padu* "to happen" (Sanskrit **पद्**, modern Aryan **पड़**) to an infinitive or noun of quality. This process, however, is as strained and foreign to elegant speech as the construction with *jā* is in the Aryan group. It appears, also, that the verb *poṇu* "to go," is also used in Tamil to form a passive, as also a verb meaning "to eat," which latter is parallel to our North-Indian expression **मार खाना** "to eat a beating" = "to be beaten." In this, as in so many other instances of alleged non-Aryan influence, the known facts do not justify us in saying more than that there is a resemblance between the two groups of languages, but that it is not clear which borrowed the process, or whether it was ever

¹ Caldwell, pp. 353, 364 (first edition).

borrowed at all. There is no reason why it should not have grown up simultaneously and naturally in both families.

§ 26. We now come to the Causal, an important and much used phase of the verb. Sanskrit forms the causal by adding the syllable *aya* to the root, which often also takes *guṇa* or *vṛddhi*; √ कृ "do," causal कारयति. There is, however, in Sanskrit a small class of verbs which form the causal by inserting *प्* between the root and the characteristic *aya*. These are principally roots ending in a vowel; but in Pali and the Prakrits the form of the causal in *प्* has been extended to a very large number of stems, in fact to nearly every verb in those languages. In Pali, however, its use is optional, thus √ पच "cook," causal *pāceti*, *pāchayati*, *pāchāpeti*, *pāchāpayati*.¹ In Prakrit, also, there are the two processes, by the first of which the *aya* of Sanskrit becomes *e*, thus कारयति = Pr. कारेर, हासयति = हासेर (Var. vii. 26), and by the second the inserted *प्* is softened to *व्*, thus giving करावेर or कारावेर (*ib.* 27). It is from this form, and not from *aya*, as I erroneously supposed in Vol. I. p. 20, that the modern causal arises. Even in Prakrit the *e* in *kārārei* is frequently omitted, as it is also in *kārei*, and we find such forms as *kārāi*, *tārāi*, side by side with *hārācāi* (Weber, Hala, p. 60), so that there remains only *ār* for the modern causal.

Among the modern languages Marathi stands alone in respect of its causal, and, as in so many other points, exhibits a hesitation and confusion which confirm the impression of its being a backward language which has not so thoroughly emancipated itself from the Prakrit stage as the others. Whereas these latter have passed through the period in which rival forms conflicted for the mastery, and have definitely settled upon one type to be used universally, the former pre-

¹ Kacvāyana, Senari, *Journal Asiatique*, vol. xvii. p. 436.

sents us with several alternative suffixes, none of which appears to have obtained undisputed prominence. The authorities for Marathi consist of the classical writers, the one dictionary-maker, Molesworth, and a host of grammarians, all of whom differ among themselves, so that one is driven to ask, "who shall decide when doctors disagree?"

The competing forms are: *aca*, *ica*, *ica*, *ari*, *dra*, *āri*, and one sees at a glance that they are all derived from one source, the causal with *ॠ*, modified in Prakrit to *ॡ*. The difficulty lies in the vowels. Where one authority gives a causal in *aca* to a particular verb, another makes the causal of that same verb by adding *ica*, and so on. Stevenson (Marathi Grammar, p. 87) teaches that *aca* is the ordinary form, as *basanē* "to sit," *basavanē* "to seat." This type, however, he adds, is peculiar to the Kankan or lowlands along the coast; in the Dakhin or centre table land above the passes the form *ica* is more used, as *karacē* "to do," *karivanē* "to cause to do." A third form *ari* is said to be "of a middle class," and not characteristic of either dialect, as *karavinē*. It is to be noted here that the causal suffix, strictly speaking, ends with the *r*, and the vowels that follow this letter may fairly be regarded as mere junction vowels, used to add the terminations to the stem. In those of the cognate languages which use *d* as the causal suffix, the junction vowel used is either *i*, as B. *karā-i-te*, O. *karā-i-bā*, S. *karā-i-ṇu*, or *u*, as Old-H. *karā-u-aā*, P. *karā-u-pā*, or hardened to *va*, as G. *karā-va-vaṇ*. Dismissing, then, the final vowel as unconnected with the suffix, we get for Marathi four types, *ar*, *ār*, *ir*, *ic*. Of these four *ar* approaches most closely to the Prakrit, and may therefore be regarded as the original type from which, by a shortening of the vowel, comes *ar*, which, all things considered, is perhaps the most common and regular; a further weakening of the vowel produces *ir*; and the fourth form, *ic*, probably owes its long vowel to the Marathi habit of lengthening vowels at the end of a word, or

in a syllable, where the stress or accent falls. Thus all four forms may be used, as

करणे "to do," करवणे, करावणे, करिवणे, करोवणे; also करविणे, and करीविणे "to cause to do,"¹

Causals may be formed from every verb in the language, whether neuter, active, active or passive intransitive. The meaning of the causal differs, of course, according to that of the simple verb.

Those formed from simple neuters or active intransitives are generally merely actives in sense, as

बस "sit,"	बसव "seat."
मिळ "meet,"	मिळव (junction vowel ए) "mix."
निव्र "sleep,"	निव्रव "put to sleep," "soothe."

Those from actives are causal in meaning, as

मार "strike,"	मारव "cause to strike."
शिक "teach,"	शिकव "cause to teach."

Those from passive intransitives are passive causals, as

फिर "turn" (i.e. he turned),	फिरव "cause to be turned."
कट "be cut,"	कटव, कटाव "cause to be cut."

Simple roots ending in vowels insert a *e* between the stem and the suffix to avoid hiatus, as

खा "eat,"	खाव (junction vowel ए) "cause to eat."
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So also with roots ending in *ह*, as

लिह "write,"	लिहव "cause to write."
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The various forms of the causal suffix in Marathi may be regarded as types of a stage of transition which the other lan-

¹ Godbole's Marathi Grammar, p. 103, § 379.

guages have passed by. The following are examples of the causal in these latter :

लिख "write," H. P. B. O. S. लिखा "cause to write," (H. Pres. *likhātā*, Pret. *likhāyā*, Aor. *likhāe*, or *likhāy*, or *likhāee*.)

पठ "read," *id.* पठा "cause to read."

सुन "hear," *id.* सुना "cause to hear."

In Hindi, as in the other languages, the causal of a neuter verb is, in effect, nothing more than an active, as

बना "be made," बनाना "make."

बोलना "speak," बुलाना "call" (i.e. "cause to speak.")

चलना "move," चलाना "drive."

जागना "be awake," जागाना "awaken."

उठना "rise," उठाना "raise."

पकना "be cooked," पकाना "cook."

So also in the case of double verbs given in §§ 20, 21, the active form, with long vowel in the stem syllable, may be regarded as a causal. In fact, it might be said, looking at the matter with reference to meaning, that the modern languages have two ways of forming the causal, one in which the short vowel of the stem is lengthened, the other in which *d* or some other suffix is added. Looking at it in another way with reference to form, the division which I have adopted commends itself, the forms with a long vowel in the stem being regarded as actives, those with the added syllable as causals. In point of derivation, however, both forms are causals. There is a wonderful, though unconscious, economy in our languages; where Prakrit has more types than one for the same phase of a verb, the modern languages retain them all, but give to each a different meaning. For instance, Prakrit has three types for the passive, one in which the final consonant of the stem is doubled by absorption of the *च्* of Skr. as *gamyate* = *gammai*,

a second in *la*, as *gamyate* = *gamladi*, and a third in *iija*, as *gamyate* = *gamiijadi*. The first of these types, having lost whatever might remind the speaker of its passive character, has been adopted in the modern languages as the form of the simple neuter verb, the second survives in the Panjabi passive, as *mārdā* = *mārdi*, the third in the Sindhi and Marwari passive given in § 25. So, also, it seems to me that the two types of the Prakrit causal have been separately utilized; that which corresponds to the Sanskrit type in *aya* with long or guṇa vowel in the stem, has become in the moderns an active verb, as *hārayati* = *hāreī* = *hār*; *torayati* = *torē* = *tor*; while that which takes the **ए** causal is preserved as the ordinary causal of the moderns, as *kārayati* (*karāpayati*) = *karācei* = *karā*.

Often, however, both forms exist together, and there is little or no apparent distinction between them; thus from **फट**ना are made both **फाट**ना and **फट**ना, from **हर**ना are made **हार**ना and **हर**ना, and so in many other instances.

The causal, properly so called, namely, that with the suffix *ā*, *āc*, etc., has always a short vowel in the stem syllable, except in a few instances where the stem vowel is *ṛiddhi*, in which case it is sometimes retained. Thus in the double verbs the causal suffix may be regarded as added to the neuter form, as in

NEUTER.	ACTIVE.	CAUSAL.
तप	ताव	तपा
घुल	घील	घुला

In such cases, however, we more commonly find the double or passive causal.

Single verbs with a long or guṇa stem-vowel have causals with the corresponding short or simple vowel, as in the examples **घील**ना and **घुल**ना, **आग**ना and **अग**ना given above.

Verbs whose simple stems end in a vowel insert a semivowel before the termination of the causal, and change the vowel of the stem, if *ā*, *i*, or *e*, into *ī*, if *ā* or *o*, into *u*. The semivowel

used is sometimes **व** or **र**, but more commonly **ञ**. Thus, **लेना** "to take," **लिवाना** "to cause to take," but—

H. देना "give,"	दिखाना "cause to give."
जीना "live,"	जिखाना "cause to live."
पीना "drink,"	पिखाना "give to drink."
खाना "eat,"	खिखाना "feed."
धोना "wash,"	धुखाना "cause to wash."
सोना "sleep,"	सुखाना "put to sleep."
रोना "weep,"	रखाना "make to weep."

In a few cases of stems ending in **ह**, or in aspirates, the **ञ** is optionally inserted, as

H. कहना "say,"	कहाना	and कहलाना "cause to say," "be called."
देखना "see,"	दिखाना	.. दिखलाना "show."
सीखना "learn,"	सिखाना	.. सिखलाना "teach."
बैठना "sit,"	बिठाना (or बै°)	.. बिठलाना (बै°) "sent."

A similar method exists in Sindhi, but with **र** instead of **ञ**, as is customary with that language, as¹

दिखणु "give,"	दिखारणु "cause to give."
सुखणु "leak,"	सुखारणु "cause to leak."
बिहणु "sit,"	बिहारणु "sent."
सिखणु "learn,"	सिखारणु "teach."
उथणु "rise,"	उथारणु "raise."
सुम्हणु "sleep,"	सुम्हारणु "put to sleep."

Here the **र** is inserted after the causal suffix, and this was probably the method originally in force in Hindi, for we find in the mediæval poets such words as *dikhârna* "to show," and even in modern colloquial usage *baiṭhâna* is quite as common

¹ Trapp, Sindhi Grammar, p. 256.

as *bithlānd*. Gujarati forms its causal in an analogous way, but uses **ड** instead of **र**, as

धाववुं "suck,"	धवाडवुं "give suck."
शीववुं "sew,"	शीवाडवुं "cause to sew."
वागवुं "sound,"	वागाडवुं "strike" (a bell, etc.)

After words ending in a vowel, the suffix takes **व** to prevent hiatus, and so also after **ह**, as

था (धवुं) "be,"	थवाडवुं "cause to be."
खावुं "eat,"	खावाडवुं "feed."
देवुं "give,"	देवाडवुं "cause to give."
सेहवुं "endure,"	सेहवाडवुं "cause to endure."
कोहवुं "rot,"	कोहवाडवुं "cause to rot."

This language, like Hindi, also reverses the position of the long vowel of the causal suffix, and uses such forms as *dhavarāḍ*, *khavarāḍ*, with change of **ड** to **र**.

There is nothing remarkable about the Panjabi causal, which is identical with Old Hindi, merely retaining the junction vowel *u*, as *khilā-u-nā*, *dikhā-u-nā*. In both these languages the old form *āu* has, in a few instances, changed to *o* instead of *ā*, as

भिगोना "to wet," from भीमना "to be wet."
डुवोना "to drown," „ डुवना "to be drowned."

Bengali and Oriya have only the causal form in *ā* with junction vowel *i*, as B. *karā-i-te*, O. *karā-i-bā*, and use this form in preference to that with the long stem vowel, even in those causals which are, in meaning, simple actives.

There are thus, independently of the stem with the long or guna vowel, which I prefer to treat as an active, two separate systems of forming the causal in the seven languages: one starting from the Prakrit causal in *āre*, and exhibiting the forms *āra*, *ara*, *ira*, *ira*, *ār*, *āu*, *o*, *ā*; the other starting, I know

not whence, but probably from a method in use in early Aryan speech, which has only been preserved by the classical language in a few instances, and exhibiting the forms *dr*, *ḍḍ*, *ḍl*, *rḍ*, *lḍ*. Whether these two forms are connected by an interchange between the two semivowels *l* and *r*, is a problem which must remain for future research. Such a connexion is not impossible, and is even, in my opinion, highly probable.

§ 27. The Passive Causal may be also called the double causal. The use of either term depends upon the point of view of the speaker, for whether I say, "I cause Rām to be struck by Shyām," or, "I cause Shyām to strike Rām," the idea is the same. As regards form, the term double causal is more appropriate in some languages. In H. and P. this phrase is constructed by adding to the stem H. वा, P. वाउ, in which we should, I think, recognize the syllable *dr* of the single causal shortened, and another *dr* added to it, thus from *sun* "hear," comes causal *sund*, "cause to hear," "tell," double causal *sundḍ*,¹ "cause to cause to hear," "cause to tell;" here, as *sund* is from the fuller form *sundr*, so *sundḍ* is from *sunāv + āv = sunav + ā = sundḍ*. This double or passive causal is in use mostly with neuter and active intransitive stems, whose single causal is naturally an active, as बनना "be made," बनाना "make," बनवाना "cause to be made." Thus they say, गढ़ बनता "The fort is being built;" घवरै गढ़ बनाता "The architect is building the fort;" and राजा घवरै के द्वारा गढ़ बनवाता "The king is causing the fort to be built by the architect." In this last sentence, and in all similar phrases, the nature of the construction is such that we can only translate it by the passive causal, we could not render "The king causes the architect to build," etc., by बनवाना in any other way than by putting "architect"

¹ Generally, the semivowel in this form is pronounced softly, almost like the English *u*, so that *sundḍ* would more nearly represent the sound than *sundḍḍ*. The *r*, however, in all Indian languages is a softer sound than our *r*.

in the ablative with **द्वारा** or **से**. When we are told, therefore, that this phase means "to cause to do" (the action of a neuter verb), the assertion, though correctly expressing the form, is incorrect as to the meaning; the dictionary-makers here halt between two opinions. Thus.

उठ "rise,"	उठा "raise" (<i>i.e.</i> "cause to rise"),	उठवा "cause to be raised" (<i>i.e.</i> "cause A to cause B to rise").
कट "be cut,"	काट "cut,"	कटवा "cause to cut."
खुल "be open,"	खोल "open,"	खुलवा "cause to open."

In double verbs, like those just quoted, however, the single causal in *ṣ* may be used, as **कटा** "cause to cut." As a general rule, the exact meaning of stems in this phase must be gathered from the sentence in which they are used.

Sindhi makes its double causal by inserting *rā* (Trunapp, 257), as

विच "be weary,"	विचा "make weary, tire,"	विचारा "cause to make weary."
घा "wound,"	घारा "cause to wound,"	घारारा "cause to cause to wound, or cause (another) to be wounded."

Stack instances also passive causals formed on the same model as ordinary passives, thus

सड "be on fire,"	साड "burn,"	साडा "cause to burn,"	माडाख "be caused to be burnt."
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One example given by him shows a full range of phases, as **धापणु** "to be sucked, to issue" (as milk from the breast), neuter; **धारणु** "to suck the breast," active; **धारखणु** "to be sucked," pass.; **धापिखणु** "to give suck," neut. pass.; **धारारणु** "to suckle," caus.; **धारारखणु** "to be suckled," pass. caus.;

धाराराहण "to cause (another) to suckle," double caus.;
 धाराराहण "to cause to be suckled by another," double pass.
 caus. The whole of these forms, however, are rarely found in
 one verbal stem. The double causal is common enough, thus
 from the causals mentioned in the last section are derived
 double causals—

सुम्हारण "to put to sleep," सुम्हाराहण "to cause to put to sleep."

उत्थारण "to raise," उत्थाराहण "to cause to raise" (H. उत्थाना).

§ 28. Although the suffixed syllables shown in § 26 generally and regularly indicate the causal phase, yet there are numerous verbs having this suffix which are neuter, active intransitive, or passive intransitive. As mentioned in § 11, these stems are probably built on the model of Sanskrit denominatives, and owe their long vowel to the *aya* or *āya* of that form. Hence they come to resemble in form modern causals.

In Sindhi these stems have a development peculiar to that language, and have a corresponding active phase like the double stems mentioned in § 19. Trumpp gives (p. 252, *et seqq.*) the following examples :

NEUTER.

उद्भामण "to be extinguished,"

उड्डामण "to fly,"

जापण } "to be born,"
 जमण }

द्रापण "to be satiated,"

खामण "to be on fire,"

मापण } "to be contained,"
 मामण }

विहामण "to be passed, to pass"
 (as time),

हपामण "to grow less,"

ACTIVE.

उद्भाहण "to extinguish."

उड्डाहण "to make fly, to spend."

जाण "to bring forth."

द्राहण "to satiate."

खाहण "to burn."

माहण "to contain."

विहाहण "to pass the time."

हपाहण "to lessen."

In this group the neuter stems have the type *āpa* and *āma*, which, if we regard them as derived from the Prakrit type *ābe* of the causal, will appear as respectively a hardening and a softening of the *b* of Prakrit. In some cases the neuter form is clearly derived from the older causal, as in **मारु** "to contain," rather, "to go into," Skr. $\sqrt{\text{मर}}$ "to measure;" but **मापणु**, Skr. caus. **मापयति** "to cause to measure," where, by a natural inversion of the sense, the causal has become neuter. In the case of **जापणु** the process by which the meaning has been arrived at from Sanskrit $\sqrt{\text{जन्}}$ is less clear. The other stems are also obscure, and I possess no data on which to establish any satisfactory explanation.

Sindhi stands alone in respect of this group: Hindi and Panjabi have a number of neuter stems with causal terminations, which stand on a different footing, and recall by their meaning the Sanskrit denominatives, having no corresponding active forms, as—

H. **खिसाना** "to be abashed," "to shrink away."

खियाना "to be worn out."

खुजलाना "to itch."

घबराना "to be agitated," "to be in fear" P. **घबराउणा**.

घमाना "to bask in the sun."

चंचलाना "to tremble," "to be unsteady." P. *id.*

P. **घरलाउणा** "to grow soft" (*a scar*).

कुम्हलाना "to wither," "to grow flaccid." P. *id.*

In words of this class, also, a syllable **रय** is often inserted, as

खिसियाना "to grin."

P. **खिखिआउणा** *id.*

This type is evidently closely connected with the passive of Gujarati and other dialects given in § 24, which I have been led by the considerations here mentioned to regard as a passive

intransitive. It seems also to be connected with the passive intransitive in B. in such passages as राजपुत्र इवे रूप नक्षणे जानाय ॥ "He must be a king's son, by his appearance and marks (of birth) it is known."—Bhārat, B.-S. 378, where *jāndy* = *jāndê*, "it appears," "it is evident," a construction exactly parallel to the Gujarati phrases quoted in § 24.

Marathi has similarly neuters with a causal type, which recall the method of formation of the Sanskrit denominative, inasmuch as they are referred by the grammarians to a nominal origin, thus—

कड़का "a cracking or crashing sound;" कड़काविणे "to crack, crash;" कड़कावणे "to roar at," "to make a crashing noise."

कमता (from Persian کم) "deficient," कमतावणे "to grow less."

करकर "a grating sound," करकराविणे "to grind the teeth."

कोषा (Skr.) "doubt," काकसाविणे "to be doubtful."

—but this may also be formed from the two words को "why?" कसा "how?" and would thus mean "to why-and-how," "to hum and ha;" just as they use in Urdu the phrase *کیسے و لعل کرنا* "to provaricate," literally to make "would that!" and "perhaps."

A distinction may apparently be drawn in many cases between forms in *dra* and those in *dri*, the former being rather denominatives, and as such neuter, while the latter are causals. Thus from घोरका "little," "few," घोरकावणे "to grow less," and घोरकाविणे "to make less," but the authorities accessible to me are not agreed about this point, and I therefore hesitate to make any definite assertion on the subject. Molesworth gives, for instance, डरकावणे ", "to bellow," "bluster," and डरकाविणे "to frighten by bellowing;" also डरावणी "the act of roaring at," from डराविणे or डरविणे "to intimidate," where

the *i* of the infinitive seems to be represented by *a* in the noun.

On the other hand, the close connexion of these neuters with the passive type is seen in S., where the passive characteristic **इञ्** is used, according to Stack, convertibly with the neuter, having the short vowel. Thus **झाइञ्** or **झाइञ्** "to be satiated;" while there are also verbs of two forms, one with the neuter type, the other with the causal type, but both having a neuter sense, as **डिरिञ्** and **डिराइञ्** "to grow loose or slack."

Further examples are—

झपञ् and **झपिञ्** "to grow less;" also **झपामञ्** "to decrease."

झकाइञ् and **झकिञ्** "to fade," "tarnish."

मारञ् and **मारिञ्** "to be contained in."

It is not certain how far later and better scholars like Trumpp would confirm the accuracy of Stack's definition. He seems to be somewhat inaccurate and careless in drawing the distinction between the various phases of the verb.

§ 29. Secondary verbs are not so numerous as secondary nouns, and those that exist have, for the most part, a familiar or trivial meaning. They are formed by the addition of a syllable to the verbal stem, or to a noun. This latter feature is especially common in H. verbs formed from feminine nouns in *aka* (Vol. II, p. 31), thus Behari Lal

छुटी न शिशुता की झलक झलकी जीवन रंग ।

"The splendour of childhood has not ceased, (yet) youth shines in the limbs."—Sata, 17.

Here the substantive **झलक** "glitter," "splendour" (probably formed from $\sqrt{\text{जल}}$), gives rise to a verb **झलकना** "to shine." Similarly all the nouns quoted in the passage referred to in Vol. II. have verbs formed from them as there stated. It is un-

necessary to give a list of them, and it may be here observed that in languages which, like English, have advanced far into the analytical stage, great freedom of formation exists, so that many words may be used either as nouns or verbs. Many nouns have, in common usage, verbal terminations added to them, and thus become verbs. We see constantly in modern English, French, and German, new verbs thus formed, as, for instance, by adding *-ize*, *-iser*, or *-isieren*, as *colonize*, *coloniser*, *colonisieren*, several of which have not found their way into dictionaries. The same is the case with our Indian languages, and it is impossible here to follow or set forth all these constantly arising innovations. Those which have received the sanction of literature will be found in the dictionaries, and many more will probably be admitted to the dictionaries of the future, if the authors of those works are wise enough to keep pace with the actual growth of language, and do not permit an overstrained purism to prohibit them from truly recording the language as it exists in their day.

I will content myself with giving a few examples of this class of verbs from Marathi, which, as I have before noticed, is very rich in forms of this kind. This language has secondary stems formed by the addition of वट, चट, आट, चढ, षळ, वळ, अर, a series the items of which seem to indicate a progressive softening from some earlier type. Thus—

घासणे "to rub" (Skr. $\sqrt{\text{घृष्}}$), secondary stems घसटणे "rub," घसरणे "slip," घसवटणे (a potential form) "graze the skin," "be practised in" (an art or science), घसाडणे "scour" (pots), घासटणे a, "rub off, deface," a, "be rubbed," "be despoiled of." Analogous is H. घसीटना "drag."

डुबणे "to sink" (rarely used), डुवणे, डुम°, डुम°, "to splash about in the water," डुवकणे *id.*, डुवकविणे "to plunge into water," (causal) डुवकळणे "to dip."

घांग "place," घांगारणे "to arrange."

घाप "pat," घापटणे "to pat," घापनणे "to back water," "to steady a vessel by short strokes of the oars while working the sails."

दंड "stick," दंडणे "to press, punish," दंडपणे "to compress," दंडावणे "to stiffen," compare B. दंडारते "to stand up."

Materials are, unfortunately, deficient, so that in the present state of research, no thorough analysis can be made. Nor can any definite separation into classes be effected. As so many verbs of this kind, however, are derived from nouns, the course to be pursued would probably be to affiliate each group of verbs to that formation of nouns with which it corresponds, verbs which add क् to the primary stem being regarded as formed from nouns in क्, and so on. In this method no further explanation is required for secondary verbs, as the origin of the affirmative syllable has been explained under the noun. Thus the secondary verbs, whose added syllable is *at*, or *eat*, are explained under nouns so ending in Vol. II. p. 65, those having *al*, *al*, or cognate forms, are referable to the nouns in Vol. II. p. 90, and so on.

§ 30. Reduplicated and imitative verbal stems are very common. The former usually express sounds, or motions, while both frequently partake of the denominative character and type.

In Hindi the second syllable usually contains the same consonants and vowels as the first, and the question arises whether the first or the second of the two syllables is the original, in other words, whether reduplication is effected by prefixing or affixing a syllable. The following examples show that the reduplicated syllable, whichever it be, contains, as a rule, the same vowel as the original.

(a) with *a*.

खटखटाणा "to knock, pat, rap," from खटखट *n. f.* onomatopæa.

खडखडाना "to clatter, rattle, jar," from खडक *n.f.* onomatopora.

खदखदाना "to bubble, simmer," "

खलखलाना "to rumble" (of bowels, Gk. *κορυρυίω, βορβορίζω*),
onomatop.

सहसहाना "to quiver," probably connected with सह *q.d.* "to be
seized and shaken."

झलझलाना "to matter, murmur."

झडझडाना "to flap, flop," from झडना "to fall off."

झणझणाना "to tinkle, jingle, clank," Skr. झणझण.

झलझलाना "to glitter, glare, throb," Skr. जल्ल?

फडफडाना "to flutter, twitch," Skr. स्फर्?

धरधराना "to tremble, quiver," probably onomatop.

(β) with *i*.

खिलखिलाना "to giggle, chuckle, titter," onomatop.

मिडमिडाना "to quiver, waver" (the voice in supplication), dimly
traceable to Skr. मी, योति?

घिणघिणाना "to turn sick at," from घिण "disgust," Skr. घृणा;
there are also verbs घिणियाना, घिणौना and घिणाना,

चिचियाना "to squeak," onomatop.

चिनचिनाना *id.* "

झिडझिडाना "to rave, rage, scold."

टिटिगाना "to twang," onomatop.

(γ) with *u*.

खुपखुपाना "to envy, be spiteful," perhaps from Skr. खुम् through
H. खुभना and खुपना "to pierce."

मुमुनाना "to mutter."

चुपचुपाना "to be silent, to move about quietly," from चुप "silent."

तुलतुलाना "to itch, tickle."

तुलतुलाना "to be soft or squashy."

फुसफुसाना "to whisper," onomatop.

मुरमुराना "to powder, sprinkle."

The above exhibit the ordinary type of this class, in which both syllables are the same. In some cases, where the root-syllable ends in a nasal, the first syllable of the reduplicated word softens the nasal to anuswāra, as in गुग्गुनाना, चंचनाना "to throb," and even with ल, as चंचलाना "to be unsteady," where the reduplication takes place already in Sanskrit चंचल. From the analogy of this last word we may conclude that the latter of the two syllables is the original one, and that reduplication has been effected by prefixing a syllable. There is, however, another class of such words, in which the second syllable differs from the first in the initial consonant, which, for some reason, is generally a labial. Thus side by side with खट्खटाना, खलखलाना are found खट्खटाना and खलखलाना with the same meaning. So also चुलचुलाना and चुलचुलाना, the latter with the different, though allied, meaning of being restless or fidgety. In other examples there is some slight difference of meaning in the various forms, thus from चर, which has the general sense of moving, come the adjectives चरचरा "talkative," चरपरा "acid, pungent," चरफरा "active," चरवरा "expert, alert," whence the verbs चरचराना "to crackle, to sputter, to scold," चरपराना "to smart," चरफराना "to shake, swing," चरवराना "to speak plausibly, to wheedle." Other instances are—

छटपटाना "to toss, tumble, flounder."

झडझडाना "to be on fire."

झिलझिलाना "to flicker."

तडफटाना "to flutter."

तिरमिराना "to dazzle, glisten."

लटपटाना "to stagger."

लडवडाना "to stammer, statter."

In Panjabi, as also to a great extent in other languages, there is a tendency to use a reduplicated substantive with an ancillary verb, rather than a reduplicated verb itself. These substantives are, to a large extent, imitative or onomatopoeic, as **डों डों करना** "to bang, to pop," expressing the sound of a gun going off, **चुं चुं करना** "to pipe," as young birds. It has, however, a large number of the same words, as Hindi. Of these, the following may be cited: **चिड़चिड़ावणा** "to prate, sputter," **चिड़मिड़ावणा** "to smart," **चुलचुलावणा** and **चुलचुल** "to flutter," **झगझगावणा** "to tingle" as the limbs when benumbed.

In Sindhi, also, I find reduplicated nouns, but few, if any, verbs, and the language does not appear to be rich even in these. From **जहजह** "blaze," comes **जहजहारण** "to blaze;" and a few more may be found, but the large group given in Hindi, to which many more might have been added, is either not existent or not recorded.

Gujarati is fuller in this respect, as **कड़कड़ु** and **कड़कड़ावु** "to rattle," also **खड़खड़ु**; **चटपटु** "to fret," **चणचणु** "to throb, smart," **झणझणु** "to clink, clank," also **झणझणु**; **फड़फड़ु** "to flap, to scold," and **फड़फड़ावु**; **लड़लड़ु** "to shake, rock." In its vocabulary Gujarati agrees in the main with Hindi.

As might be expected from the genius of Marathi, there is a great variety of such verbs, more even than in Hindi. In examining only the first consonant of the alphabet, numerous formations of this kind are observed. Thus from **क्रान्त** for Skr. **क्रान्त** "fatigued," by prefixing a shortened form **कं**, they make **कंकान्ते** "to be distressed, to starve," and **कंकांते** "to worry, harass." From the onomatop. **कच** "brawl," "noise," "row," comes first a reduplicated noun **कचकच**, and then **कचकचें** "to gnash the teeth," **कचाचचें** "to screech," **कचकरचें** "to slip, give way with a noise." With a second syllable added, beginning

(as we have seen in H.) as such syllables often do with a labial, is the imitative substantive कचमच expressive of "squashing," "muddling of soft substances," also of "things grating on the ear," or "being gritty in the mouth," whence कचमणे (from कचमचणे) "to dabble with mud," "to stir," "to finger," which, from a sort of remembrance of मऊ "dirt," is often changed into कचमऊणे "to make a mess by dabbling." Another imitative syllable, which it is not necessary to regard as formally derived from Sanskrit कृत् "cut," or from कष्ट "trouble," though the existence of these words has probably led the native mind in that direction, is कट expressive of "teasing, quarrelling;" whence कटकटणे "to wrangle, tease by squabbling," "to make harsh or cracking sounds." Allied to this is the word कडकड expressive of "the snapping of little things," whence कडकडणे, which may be generally rendered "to go kadkad," that is, "to crash, crack, peal, to squabble, to hiss and bubble as hot water, oil," etc., also, "to be violently angry." Perhaps connected with this is कडमडणे "to be feverish, to glow, ache," which, from some remembrance of मोड़ "breaking," is also pronounced कडमोड़णे. In these outlying words, the irregular cavalry of language, forms melt into one another, like a cloud of Pandours or Cossacks hovering on the outskirts of an army, bound by no law, and disregarding all the acknowledged tactics. A list here follows:

कणकणणे "to be feverish," from कण and कणकण "feverishness,"
"heat and throbbing," "cramp."

करकरणे "to caw" (as a crow), from करकर "cawing" or any other harsh sound.

कऊकऊणे "to glow with heat, to be qualmish" (as the stomach), from कऊकऊ a word meaning "all sorts of disorders brought on by heat, or rage," possibly connected with Sanskrit कलह "dispute."

कसकसणे "to ache, shudder, palpitate," from कसकस "pains and aches."

कळकळणे the same as कळकळणे.

कळकळणे "to writhe, yearn."

किचकिचणे "to chatter" (as a monkey), from किचकिच "any gritty or sharp clacking sound."

कुणकुणणे "to whisper, mutter, murmur," from कुणकुण "low, soft murmuring."

Under other letters the following may be quoted:

झडझडणे "to go to work smartly," from झडझड "smartly, quickly," connected with झट, which in all the languages means "quick!" "look sharp!"

झणझणणे "to tinkle, tingle, ring."

झळझळणे "to glitter, sparkle."

झुरझुरणे "to trickle, ooze, pine away."

फरफरणे "to twitch, flutter."

मिरमिरणे "to sting, be pungent."

In Bengali such forms are less common, it is by nature the language of a poor scanty population, and when Bengal became rich and populous, new ideas were expressed by borrowing from Sanskrit, instead of forming new words from the existing resources. There are numerous reduplicated nouns, but these are verbalized rather by adding the verb *kar*, than by making a new verb. Thus, where M. makes a verb *jhanjhanāne*, B. prefers to say *jhan jhan* or *jhanjhan karite*. The following are a few examples:

घुणघुणारते "to buzz, growl."

झिक्झिक् करिते "to blaze, glitter."

टनटन क "to throb, ache."

टिपटिपारते "to fidget, twitch."

ठकाठकि क° "to backbite or quarrel mutually."

ठुकठुका क° "to rap, tap."

ढलढल क° "to sparkle, shine."

धुरधुरिते "to quiver, tremble, shake."

भलभलारते "to buzz, hum."

भुडभुडारते "to murmur, whisper."

Many of these words are, as it has been seen, onomatopoeitic, and in a language so unfixed as Bengali, it is impossible to say how many are really admitted into the proper stock of the language, and how many are mere local or individual peculiarities. Thus Bharat Chandra adorns, or disfigures, his poems by innumerable fanciful words of this sort, which probably no one but he ever used, and which he has merely invented for the occasion, *e.g.*

झनझन कङ्कुण रणरण नूपुर ।

घुनु घुनु घंघुर बोले ।

"The braccleta go *ghan ghan* ! the anklets go *ran ran* !

Ghunu ghunu goes the girdle of bells."—B.-S. 299.

The remarks made about Bengali apply equally to Oriya, in which there is not any very extended use either of reduplicated or onomatopoeitic nouns or verbs.

§ 31. Occasional mention has been made in the foregoing sections of some of the stems used in the Gipay verb. That strange, wandering, low-caste people has, however, picked up many of its words from Iranian and Slavonic, as well as from non-Aryan sources. But true to the original instincts of its race, it has retained Aryan stems for its most common words, only adopting new words to express the few new ideas which, in spite of its nomad unsociable life, have been forced upon it by circumstances.

Rejection of initial *h* occurs in many words, as *andra* "to

laugh," Skr. √ हस, even when the initial *h* has arisen from an earlier aspirated letter, as in *uvāca* "to become," Skr. √ भू, Pr. हो. An *a* is also prefixed to roots, as *arakāsa* "to guard, to find," Skr. √ रक्ष, H. रखना; and in the impersonal verb *arāttīlata* "it is night," Skr. रात्रि. As might be expected, however, the Prakrit or modern form of verbal stems is that generally adopted. Thus *katāsa* "to spin," H. कातना, *kerāsa* "to do," H. करना, *kināsa* "to buy," Skr. √ की, H. कोनना, *ghoshāsa* "to clean," Skr. √ घृष्, H. घिसाना "to rub," but घृष् might give a Pr. घृष्, whence this word, also pronounced *khoshāsa*. *Korhiorāsa*, from *korāsa uvāsa*, Skr. कोमल, with हो "to be," "to be soft;" *khānjiorāsa*, from *khānj uvāsa*, "to scratch, to itch," Skr. कण्डू "itch," H. खाज, खुजली. *Khāniorāsa*, also *khāsāsa*, "to cough," Skr. √ काश्, but H. खांसना. *Khamāsa* "to dig," Skr. √ खन्; *khāsa* "to eat," Skr. √ खाद्, Pr. खा, H. *id.*, but the nomads of northern Rumelia use a form *khaderāsa*, which preserves the *d* of Sanskrit. *Khāniorāsa* for *khino uvāsa*, Skr. खिन्न with हो "to be fatigued."

There are three very similar verbs which illustrate the principle of stem-formation in this language well; *ghedāsa* "to assemble," *gheldāsa* "to bring," *ghendāsa* "to count." The last of these three reminds us of Skr. √ गण्, H. गिनना, for the *gh* is only so written to secure the *g* being pronounced hard; the p.p. is *ghendo*, Skr. गणित; *ghedāsa* is apparently for *ghen dāsa*, the latter word meaning "to give," and being added as an ancillary, just as देना is in H., so that *ghen dāsa* = H. गिन देना. Its p.p. is *ghedino*, and that of *dāsa* is *dino*, Pr. दिखो, Old-H. दीन्हा and दीना, which confirms this derivation. Similarly, *gheldāsa* is *ghen lāsa*, where *lāsa* means "to take," H. लेना. From these two examples, it would appear that the *gha* of *ghedāsa* and *gheldāsa* is not connected with *ghendāsa*, but is Skr. √ ग्रह्, Pr. गेह "to take."

Strange perversions of meaning occur, as might be expected, thus *chalavāsa*, Skr. √ चल्, H. चलना, should mean "to cause to

move," H. चलाना. It means, however, "to beat," thus *jā, dīk kon chaldēla o ruddr*, "Go, see who knocked at the door!" This is singularly close to the Indian languages. We might say in H. *jā, dekh kon chalāya dār ko*. The confusion between the two meanings of Skr. √ चर् is apparent here also. In Skr. चर् and चल् mean "to move," and the former, by a natural transition, is used also of cattle grazing. In H. they are kept apart, चलना meaning "to move," and चरना "to graze." In Gipsy *charāva* "to eat," makes its p.p. *chalē*, the causal *charācāra* is "to lead out cattle to pasture," and a neuter verb *chārīorāra* or *chālīorāra* "to be satiated." Again, *chalarāra* "to be satiated with," p.p. *chalarāro* "full," "satisfied."

Frequently, as in the Indian languages, a primitive verb is wanting, and its place supplied by a compound, thus they say, *chumi dāra* "to kiss," Skr. √ चुम्, H. चुमना, but the Gipsy is = चुम देना. So, also, *chungār dāra* "to spit," probably to be referred to Skr. √ चीव्, and connected with H. होव, M. शीव "sneeze."

Under ज् occur words familiar to us in India, as *jānda* "to know," Skr. √ ज्ञा, H. जानना; *jāra* "to go," Skr. √ वा, H. जाना, with its old-Tadbhava p.p. *gelo*, B. जेल, H. गया, गया; *jāngāra* "to awaken," Skr. √ जाम्, H. जमाना, and the neuter *jāngānio-ēra*, H. जागरत होना, जागना; *jīra* "to live," Skr. √ जीव्, H. जीवना, जीना, p.p. *jīdo*, Skr. जीवित.

Under त् we find *tarāra* "to cook," Skr. तप् p.p. *tardo*, Skr. तापित, also *tatto* "hot," Pr. तत्त, Skr. तप्त, H. तत्ता. Connected with this probably are *tāp dāra*, *tāv dāra*, "to beat," where Skr. ताप, H. ताव, has passed over from the meaning of heat through that of vexation into that of beating. The neuter is *tabīorāra* or *tapīorāra* "to be burnt," as in *senkerē sherealē tabīorāra ahamdā* "at his head burnt a candle." A more modern form with the characteristic *t* of the p.p. in M. G. B. and O. is *tablo* "hot." A derivative is *tabarāra* (a causal) "to cause to burn."

It is apparent, from these examples, which might be indefinitely increased, that the base of Gipsy verbal stems is the Prakrit, in its earlier as well as its more modern forms; that the phases of the Indian verb are also fairly represented; that the practice of using ancillaries is also not unknown; and that thus this wild and wandering race has carried with it, wherever it has gone on the face of the earth, the principles and sentiments of speech formation which it inherits from the land of its birth, the deserts of the Indus and the Chenab.

CHAPTER II.

THE SIMPLE TENSES.

CONTENTS.—§ 32. CLASSIFICATION OF TENSES.—§ 33. THE SIMPLE PRESENT OR AORIST.—§ 34. THE IMPERATIVE.—§ 35. THE FUTUR IN OLD HINDI AND GUJARATI.—§ 36. TITE OF THE ACTIVE VERB IN SINDHI AND MARATHI. § 37. SYNOPSIS OF THE SIMPLE TENSES IN ALL SEVEN LANGUAGES.—§ 38. SIMPLE TENSES IN THE GIPSY VERB.

§ 32. THE preceding Chapter has dealt only with the stem, or that part of the verb which remains unchanged throughout all moods and tenses; we have now to consider the processes used to express the various relations which the idea involved in the stem is capable of undergoing.

The tenses of the modern verb fall naturally into three classes or grades, and it is surprising that so patent a fact has not been noticed by any of the grammar-writers. It is impossible to give, as some writers do, a fixed number for the tenses in any of our languages, for the combinations are almost infinite; but a broad, general classification would, one might suppose, have suggested itself to the most mechanical compiler. The grammar-writers, however, including even authors so superior to the general run as Trumpp and Kellogg, have been, for the most part, led away by giving their attention, in the first place, if not exclusively, to the *meanings* of the various tenses. This practice has led them to lose sight of the primary idea as evolved out of the *structure* of each tense. Had the structure been first considered, it would have been easy to discover which of the many conventional senses of a given tense

was its primary and legitimate one, and by adhering to this process, a more simple and natural classification of tenses would have been arrived at.

Kellogg does, indeed, clearly grasp the principles of the structure of the Hindi verb, but he is too metaphysical in his considerations about the meaning of each tense, and has adopted a phraseology which cannot but prove bewildering to the student, and which scientific linguists are not likely to adopt.

In Sindhi Trumpp divides the verb into simple and compound tenses. The simple present is by him called the Potential, though he is well aware of the fact that it is really the old Sanskrit present indicative, and in his philological notes duly recognizes the fact. His classification is sufficient for Sindhi, though it would hardly cover all the tenses in the cognate languages. As usual, he is, in this respect, much in advance of all other grammar-writers on the modern languages. In the Grammars of Gujarati, Marathi, and Oriya, the same distinction between simple and compound tenses is preserved, though in many cases erroneously worked out.

It appears to me, however, that for purposes of comparison between all the languages of this group, a finer distinction still is required, and I would suggest a threefold division, which it will be my business in the following pages to substantiate and describe in detail.

First, there are the simple tenses,—exact modern equivalents of corresponding tenses in the Sanskrit and Prakrit verb, whose form is due to the ordinary processes of phonetic change and development, and in which the old synthetic structure, though very much abraded, is still distinctly traceable.

Secondly, the participial tenses, formed from participles of the Sanskrit verb, used either alone, or with fragments of the Sanskrit substantive verb, worked into and amalgamated with them so as to form in each case one word only. In the latter

case these tenses have a pseudo-synthetical appearance, though the principle on which they are formed is really analytical.

Thirdly, compound tenses, in which the base is a participle with an auxiliary verb added to it, but not incorporated into it, each person of each tense thus consisting of two words in juxtaposition.

A further development of the analytical system produces the large class of verbs with ancillaries, in which the master-stem, so to call it, remains unchanged, and the ancillary does all the work of conjugation. Each of these classes will now be considered in its turn. The present chapter is devoted to the first class, or simple tenses.

It must here also be noted that the seven languages have but one conjugation each, that is to say, that the terminations and methods of forming tenses in use in any one language are applied without variation to every verb in that language. A partial exception may, at first sight, seem to occur in Sindhi and Marathi, in both of which there is one method for conjugating neuter, and another for active verbs. It will be shown, however, that though at first sight the terminations of the neuter verb seem to differ from those of the active, as in *M. मी सुटें* "I escape," *u*, but *मी सोडों* "I set free," *a*, yet in reality the scheme of terminations is one and the same for both, and the difference is due to a process of preparing the root to receive terminations, and to the abrasion of those terminations, in some cases from euphonic causes, and not to the existence of a double system of conjugation.

§ 33. First among the simple tenses comes, in all the languages, the old Sanskrit present indicative, which, in form, preserves clear traces of its origin, though, as in its abraded condition it now no longer indicates with sufficient clearness present time, it has wandered away into all sorts of meanings, and is given by grammarians under all sorts of titles. Con-

sidering the very vague meanings which it now expresses, especially in regard to the note of time, it has seemed to me that the Greek term "aorist" more accurately describes this tense in its modern usage than any other. The fact that it is a present, no matter what additional indefinite meanings may be attached to it, is, however, necessary to be borne in mind, and I think that in modern grammars it should always head the list of tenses, as the simplest and most genuine, and legitimately first in order, of them all. In those languages of this group with which I am personally acquainted, I can assert, from my own experience, that it is far more frequently used in colloquial practice as a present, pure and simple, than our grammar-writers, basing their views too much on the literary aspects of the languages, would have us believe.

The terminations of the aorist in the classical form of each language in the present day are the following. (For the full forms, see the tables at the end of this chapter.)

	SING. 1.	2.	3.	PLUR. 1.	2.	3.
Hindi	ऊँ	ए	ए	एँ	ओ	ए
Panjabi	आँ	ऐ	ए	ऐ	ओ	अण
Sindhi	आँ	ऐ	ए	ऊँ	ओ	अनि
Gujarati	उँ	ए	ए	इये (ये)	ओ	ए
Marathi	एँ	एस (अस)	ए	ऊँ	आँ	अत्
Oriya	एँ	उ	ए	उँ	अ (ऽ)	अनि
Bengali	ह	इस	ए	ह	अ (ऽ)	एन् (अन्)

The third person singular is the same in all the languages, ending universally in ए. In Oriya poetry it ends in अह, and this now somewhat antiquated form is still occasionally heard, as in करह "he does," अटह "it is." The form in अह is in use in the rustic dialects of Hindi and Gujarati, as is also the intermediate form ऐ. It seems certain that this universal ए has been formed from अह, the termination of this person in

Prakrit, and corresponds to the Sanskrit चति. Thus चलति becomes चलद, चले, and चले. The rustic Hindi forms चलहि, चलथ, are, I think, to be explained by the Prakrit process of inserting च and ह to fill a hiatus; thus चलति becomes चलहि and चलथि. In the hill dialects of Kumaon and Garhwāl the final vowel is lost, and they say चल for चले. The same takes place in Nepali.

The third person plural similarly points to the same person in the Sanskrit present. Oriya has here preserved the termination unaltered, as करन्ति "they do," मारन्ति "they beat," though in common conversation there is a tendency to drop the final *i*, and to say *karant*, *mārant*. P. S. and B. have lost the त्, and with it P. and B. have rejected the vowel also, which Sindhi retains. Hindi has softened the nasal consonant to anunāsika, and Gujarati has rejected the nasal altogether, so that the 3 plural is the same in form as 3 singular. This also is the case in the dialects of Hindi spoken in Rajputana, which have मारि "they strike," where classical H. has मारि. After the rejection of the त्, which is a phonetically anomalous, though widely used process, the remaining form would be चनि, as मारनि, closely approximate to which is Garhwāli मारन. The Braj form मारि is deducible also from मारनि, through an intermediate मारंद and माररं. The last-named form is still in use in the Eastern Hindi area, and has in Bhojpurī modulated into मारी; while the type मरर is preserved in the Oudh and Rīwa form मारथ, where थ has been substituted for र, and an inorganic second anunāsika added, concerning which there will be more to say presently.

Marathi stands alone in preserving the *i* of the Sanskrit *anti*. In old Marathi the final vowel is preserved and lengthened, as उठती "they rise;" in the modern language उठत. In the Konkani dialect¹ all three persons of the plural are said to end

¹ *Grammatica da Lingua Concani* (Goa, 1859), p. 74.

in *ti*. Thus in the Portuguese method of transliteration, which is not very accurate, the words are thus written, *amī aasati* "we are," *tumī aasati* "ye are," *te aasati* "they are." We should probably write असति=classical M. असत. The author tells us, however, that one may also say *amī aasāi* "we are," which is classical M. first person plural आम्ही असूं, though in Konkani it may be used for all three persons of the plural.

The second person singular ends in ए in H. and G., and is from Skr. असि by elision of स, thus चलसि, चलहि, चलर, चले (Braj), चले. In B. it formerly ended in असि, but the final vowel has been rejected, and the *a* weakened to *i*, thus देखिस "thou seest;" this form has been excluded from literature, but is extremely common in speech. In M. also the स has persisted, as मुटस "thou dost get free," where the *e* is apparently due to the epenthesis of the final *i* of an earlier मुटसि. The *i* may, however, be dropped altogether, without leaving any trace, and one may say मुटस. P. and S. take anunasika, as करे "thou doest," which is perhaps due to the influence of the ह, which has disappeared. The termination इस is often heard among the lower classes in the Hindi area, but always in a past sense, and extended to all persons, as कहिस "he did," कहिस "he said" (also I or thou). The O. termination उ for this person is abnormal, and I am at a loss to account for it.

The second person plural in all but M. ends in *e*, for though B. and O. write अ, they pronounce *ō*, and when emphasis is used, *ō*. There is no difficulty in affiliating this termination to the corresponding Skr. 2 plural in *tha*, through Pr. *dha* and *ha*, thus चलह "ye go," where, by elision of *h* and conflation of the two vowels, we should get चलअ and चला. The final *ō* has been lengthened to *e*, as in the plural of nouns. Marathi also forms this person on the analogy of its noun, in which the final anuswara is typical of the plural, so that we get चला. The process, however, is quite modern, for in the mediæval poets the second person plural ends in *d* without anuswara.

There is some obscurity about the first person in both numbers. In H. and G. the singular ends in ऊँ (उँ), while the plural ends in ऐ (ए); but in S. M. and O. it is the plural which ends in ऊँ, while ऐ is in M. and O. the termination of the singular. Now if we look to the earlier forms, it would seem more natural to derive वल्ले from चलामि, where the presence of the final र accounts easily for the ऐ, and so the plural चलामः with its Prakrit representative चलामु would regularly result in ऊँ. Moreover, in many dialects even of Hindi, the plural is still चलउँ and चलौ, चलूँ, चलौ. In the Rajputana dialects it is चलाँ, which agrees with the singular of modern P. and S. For five of the languages Skr. चलामि softened to चलाइ would become चलाई, whence M. and O. चलै "I go," and further shortened, B. चालि *id.*, while the rejection of final र gives P. चलाँ, S. हलाँ "I go." The singular, therefore, in these five is easily understood. So also is the plural, for Skr. चलामः, Pr. चलामु, would become चलौउ and चलौउँ, whence dialectic H. चलाँ (Rajputana), चलूँ, चलौँ, चलौँ (in the Himalayan dialects), S. हलूँ, M. *id.*, G. चलूँ. But how are we to account for the singular and plural in H. and G.? It seems as if an inversion of the two persons had taken place. It is probable enough that a form originally plural should have become singular, because natives universally speak of themselves as "we" even when only one person is speaking. In this way the plural form may have passed over into a singular. And this tendency would be further developed by the fact that in H. and G. the languages which make the singular end in *म*, the pronoun of the first person was, in mediæval times, and dialectically still is, हौँ, so that it would be natural to say हौँ करौँ "I do," on account of the identity of sound. In the other languages this pronoun has dropped out of use (see Vol. II. p. 302). Even if this conjecture be disapproved, and if it be thought that the singular करौँ is derived from Pr. करामि by loss of the final *i* and softening of the *m* into anuswara, we are still as far as ever from the

origin of the plural in *ea*. I think that this might perhaps be accounted for by the form of the third person plural having passed over into the first. That forms belonging to one person or case do often get extended to other persons or cases, is generally admitted. In the Riwa dialect of H. the 1 pl. ends in *व*, as **मारव** "we strike," which seems to be connected with the 3 pl. of P. S. and B., and in most of the dialects the 1 pl. is identical with 3 pl. Now the 3 pl. has a right to an *i*, coming as it does from a Skr. *-anti*, and the presence of the *व* in the Riwa, and other eastern Hindi dialects, points to the same source. The inorganic *anuwāra* in poetic Hindi, as **मारहि** "they strike," and dialectic forms, seems to have arisen from a feeling that final *anuwāra* was the proper type of plurality, and thus depends upon a false analogy with the plural of nouns. The widespread Bhojpuri dialect has **मारौ** both for 1 pl. and 3 pl., where the ending retains the nasal and the *i*, though the latter is lengthened. We may, however, also suppose that **करै** 1 pl., "we do," is really the singular, and that the real plural having been used for a singular, the real singular became a plural. For though a native is fond of speaking of himself individually as "we," yet the consciousness of only one person being referred to might lead him to use the singular verb, just as the Muhammadans in Orissa, in their corrupt Urdu, say *ham karūngā* "I will do," literally "nos faciam," a plural pronoun with a singular verb. So, also, the French peasant says "je faisons," "j'avons;" and the English one "we goes," "he do," "they says."

The above remarks leave this difficult point still far from elucidation. It is surprising that none of the grammarians have observed the existence of the difficulty, or offered any hints towards its solution. It is further complicated by the fact that P. and G. insert *i*, *i*, *ay* or *iy* between the stem and the termination of the 1 pl., thus P. **पढ़े**, **पढ़िये**, G. **पढ़ीये**, **पढ़िये** "we read." Here it has been suggested that the *Apabhraṃṣa*

form in *ima* is the origin, thus **हसिमो** "we laugh" became **हसियो** and **हसिचे**, but the change from **म** to **य** is unusual.

On the whole, then, the correspondence of the modern forms of this tense with those of the ancient synthetical present is so close that there can be no doubt as to its derivation therefrom. The terminations, however, have been so much worn away, and in some respects confused with one another, that the tense itself no longer indicates present time with sufficient definiteness, and other forms, which will be treated of hereafter, have been called in to supply the place of a present. This tense has thus become vague, and in modern times is often used in both a future and a past sense. In Marathi grammars it is set down as an "Habitual Past," so that **मी सुटें** means "I used to get loose." In Panjabi it is given as an indefinite future, as **मैं ब्रह्मा** "I would send," or, "I am going to send." It bears this meaning also in Hindi. Still, in literature, it is frequently the present, and nothing else, while in Bengali it is used as an "historic present," namely, that tense which is used by historians when, to give vigour to their style, they speak of past events in the present tense, thus *tatpare katak-guli loka giya pāthara sangraha kare, emana samaye chakhāni bāra pāthara kha-siya pare*, "After that several people went and collected stones, suddenly a great block of stone slipped and fell;" where *kare* and *pare*, though they must be translated by preterites, are really the old synthetic present. This practice is extremely common in modern Bengali, both in the literary and in the colloquial style.¹

It is unnecessary further to pursue the question of the

¹ In the Gujarati grammars of Lockey and Edalji this tense appears several times over. It is the first present and first habitual past of the Indicative mood, first Aorist of the Subjunctive, first present of the second Potential and the Optative. All this merely means that it is used in the moods which, in a Latin or Greek verb, would be assigned to those tenses: but as the words are the same in all, it would be quite as accurate, and much simpler, to record it once only, and note that it is used in a variety of senses.

various senses in which this tense is now employed, as the point is one which belongs not to the domain of comparative philology, but to the grammar of each individual language. The name "aorist," which I have suggested, has the advantage of being indefinite as to time, and in this way represents fairly the scope of the tense.

§ 34. The next simple tense is the IMPERATIVE, and this, like the aorist, is descended from the imperative of the ancient languages. As might be expected, it closely resembles the aorist or old present, and has the following scheme of endings:

	S. 1.	2.	3.	P. 1.	2.	3.
Hindī	ऊँ	✓ ¹	ए	ऐ	ओ	एं
Punjabi		✓			ओ	
Sindhi		उ			ओ	
Gujarati		✓			ओ	
Marathi	ऊँ	✓	ओ	ऊँ	आ	ओत
Oriya	ऐ	✓	उ	उ	अ (४)	अनु
Bengali		✓	उक		अ (४)	उन्

In this scheme only the second persons singular and plural have been given for P. S. and G., because the other persons are the same as the aorist. This is also true of H., the aorist being used as a potential in all these languages, the first and third persons of both numbers can only be considered imperatives in so far as the potential is itself imperative, just as in Latin and other Indo-European languages. So we may say in H. *parhe* "he reads," or, "let him read." It was shown in §§ 4, 5, etc., that even in Pali and the Prakrits the present and imperative had been confounded together, a practice that has paved the way for the modern system.

It is only in M. O. and B. that the third singular has a

¹ This mark means that the 2 sing. is the simple stem, as *kar* "do thou?" *parh* "read thou!"

separate form, which may in all cases be traced back to the Skr. ३ eg. **अनु**, Pr. **अउ**, which in M. becomes **ओ**. In M., however, the termination **ऊ** for this tense is also in use. To the same origin may be ascribed the O. **उ** and B. **उक**, the final **क** of which, however, presents considerable difficulty. It will be discussed along with a similar termination in the future.

The third plural in M. O. and B. is parallel to the singular, and is connected with Skr. **अनु**, just as the corresponding person in the aorist is with Skr. **अनि**. In O., owing to the influence of the final *u*, this termination is often written *untu*, as *karuntu* "let them do," *jāuntu* "let them go."

In all but S. the second singular is the bare verbal stem. In M. a final **य** is heard, and slightly also in B. and O. In the dialect of Northern Gujarat a **य** is sounded after the final consonant, as **करे** "do thou," **बोले** "speak thou," **जाये** "go thou."¹ But in the rest this person ends with the final consonant, as *kar* "do," *dekh* "see." In the H. mediæval poets this person often ends in **हि**, as stated in §§ 4, 5, 7, corresponding to which is a plural in **ऊ**, as

तुम्ह लेऊ तुम्ह लेऊ मुप बपि बोध ॥

"Seize ye! seize ye! muttering of war."—Chand, Pr. R. xix. 33.

This form is also found in G., and in Old-M. takes the shape of **ऐ**, as **पवि** "find thou!" for **पावई**, from **पावहि**, with inorganic *anuvāra*. Sindhi, which causes all its words to end in a vowel, makes this person end in **उ**, which is apparently only a weakening of the final vowel of the stem. The dialectic forms of H. present few noteworthy peculiarities, in some cases the forms which Kellogg gives as imperatives are really other tenses used imperatively. Thus the form **मारव** "beat ye!" common in the eastern area, is really a future, "ye shall beat." Often, too, in colloquial Hindi, and in Urdu, in giving an order,

¹ Vans Taylor, *Grammar*, p. 88.

the future is used, as राम को अपने संग लाओगे "You will bring Rām with you," that is, "bring him with you!" So also the infinitive, as यह सब काम आजही करना "Do all this work to-day," literally, "(Take care) to do," इस रिण को चुका दे तब चली जाना "Pay this debt, and then go away."

Most of the seven languages have, in addition to the ordinary imperative, a respectful form used in addressing a superior, or in entreating and asking a favour. This, in Hindi, ends in Sing. **इये**, Plur. **इयो**. In P. this form is seldom employed, and when used, may be considered as borrowed from H. In the other languages are—

Sindhi	Sing. २. इये, एये,	Plur. २. इयो, एयो.
Gujarati	„ अये,	„ अयो.

In a few stems in H. which end in *r*, **ञ** is inserted between the stem and the termination, the final vowel being changed to *i*, as ले "take," लीजिये, दे "give," दीजिये; the stem कर "do" is in this case changed to की, making कीजिये "be pleased to do." Sindhi sometimes takes in the singular **रजु** instead of **इये**, probably on the analogy of the simple imperative, which ends in *e*; and in the plural, instead of **इयो**, the forms **रजा, रजाह, रजाह, रजाह** are used when great respect is implied, as वज्रिजा "be pleased to go," सुणिजाह "be pleased to hear." Many of the rustic dialects of Hindi have also this form; thus Rajputana **इजे, इजी, ईजे**, or simply **जे**, as मारिजी, मारीजे, मारिजे "be pleased to strike."

Vararuchi (vii. 20, 21, 22) teaches that *jñā* and *jñā* may be optionally substituted for the affixes of the present and future, also for those of the imperative, in verbs which end in a vowel. In Old-Marathi, accordingly, a form with inserted **ञ** is found in present, past, and future, as well as imperative, as करिजेतो "he does," करिजेना "he did," करिजेन "he will do," करिजे "do

¹ Pincotti's *Sakunfalā*, p. 12, a first-rate text-book in admirable Sanskrit Hindi.

thou," in which the junction vowel between the inserted **ञ** and the termination has been changed to *e*. As, however, the inserted **ञ** is also a type of the passive, this form has occasionally been mistakenly used in a passive sense, as **मी मारिजेतो** "I am struck." Lassen (p. 357) refers this increment to the Skr. potential, which is confirmed by the Pali forms quoted in § 4, and by the dotted **ञ** in S., which usually indicates that a double letter has existed. The **य** of the Skr., as in **पवेयं**, is doubled in Pa. **नवेय्यामि**, and hardened to **व्व** in Pr., whence the modern **ञ**, with lengthening of the preceding vowel in H., and change of *e* to *a* in G. (cf. G. **दख** = **देख**). As Varanuchi, in extending the use of this increment to present and future, is writing of the Maharashtri dialect, it is not surprising that the modern Marathi should show a wider use thereof than the sister idioms, in which the sense of a potential has passed over into that of a respectful imperative, or, as Trumpp well calls it, precativa.

To this tense belong the two M. words **म्हणजे** and **पाहिजे**. The former is the precativa of **म्हण** (Skr. **√ भण्**) "to speak," and means literally, "be pleased to say;" in modern times it means "that is to say," "i.e.," "videlicet," as **अथ म्हणजे घोडा** "*açun*, that is to say, a horse." It has also a future form **म्हणजेन**, meaning "in that case," as **पाऊस पडला म्हणजेन पीक होईल** "If rain falls, *then* (or, in that case) there will be a crop." The latter, with a plural **पाहिजेत**, and a future **पाहिजेन**, is from **पाहणे** "to see," literally "please to see," and means "it ought," as **हे काम केले पाहिजे** "this work *ought* to be done," literally "please to see (that) this work is done;" "see" being used in M., as in English, in the sense of "seeing to," "providing for," "taking care for."

Similar to these is the H. **चाहिये**, lit. "please to wish," but

¹ See Molesworth's Marathi Dictionary under these words; also Godbol's Marathi Grammar, p. 92.

meaning "ought," and, like पाहिजे in M., used with the past participle, as यह काम किया चाहिये "this work *ought* to be done." Colloquially, however, and even among good writers, चाहिये is often, like other ancillary verbs, constructed with the oblique form of the infinitive, and it would not be absolutely incorrect to say करने चाहिये. In fact, the construction both in M. and H. with the past participle remounts to a period when the participial character of this form was not yet forgotten. Since, however, the past participle in H. has come to be used simply as a preterite, this construction has lost its significance. Not so in M., where, as will be seen hereafter, the distinction between the preterite and participle still survives.

Gujarati has an analogous formation in the word जोइये "it is wanted," French "il faut," Italian "bisogna." It is from the verb जोवुं "to see," and is used with a dative of the subject, as मैं बीजो वर जोइये नहीं "I want no other blessing," like Latin "mihi necesse est, oportet, decet," etc. It is conjugated throughout the full range of tenses, as सफर मां जे काइ जोइतुं हतुं "Whatever *was* required for the voyage," जो मारे हरख जोइये तो "Should I require venison, then . . ."

§ 35. A simple future derived from the old synthetical tense exists only in Gujarati and in Old-Hindi. The tense is as follows, taking the stem *kar* "do," as a type:

	SING. 1.	2.	3.	PL. 1.	2.	3.
Gujarati	करीष	करशे	करशे	करिजुं	करशो	करशे.
Old-H.	करिहीं	करिहै	करिहै	करिहैं	करिहो	करिहै.

Kellogg (Gr. p. 238) gives the following interesting transitional type from eastern Rajputana:—

	SING. 1.	2.	3.	PL. 1.	2.	3.
	करखू	करसी	मरसी	करखो	करखो	करसी.
	करसू					

There are, in fact, four types of the future in the modern languages, having for their characteristics respectively the letters *स, य, ज,* and *व*. The *स* type has a variant *ह*. The *ग, ल,* and *ब* types belong to the class of participial tenses, and will be discussed under that head. The *स* type, with its variant *ह*, found in G. and Old-H., with dialectic variations in several of the modern rustic dialects of H., is the only one which is directly derived from the corresponding Sanskrit and Prakrit tense. It is the Sanskrit future in *ishya*, as in *karishyāmi*, which, as already pointed out in § 4, becomes in Pali *karissāmi*, and retains that form in the higher Prakrits. The transition from this to the eastern Rajput करसू seems to rest upon the confusion between the first persons of the singular and plural already noticed in H.; for Rajp. करसो, though now a plural, represents करिस्सामि better than does करसू, which latter leads to Pr. plural करिस्सामु, just as does G. करिषु. The G. 1 sing. करीश has rejected all terminations, and lengthened the preceding vowel; this form is also, in the general confusion, due to the corruption of personal affixes, used for the 2 sing. The second and third persons of both numbers may be traced back to the corresponding persons of the Prakrit just as in the aorist, and the loss of the *i* in the second syllable is probably due to the neglect of vowels in G., where the first plural even is written in three ways, as करीशु, करिषु, or करशु. The orthography of G. is, it will be remembered, still unfixed.

In most of the Prakrits the future has undergone a further weakening, by which the *स्स* of the higher types has been resolved into *ह*, so that we get such forms as गमिष्विति side by side with गमिस्सति. It is from this weakened form that the Hindi type is derived. Thus 3 sing. करिहे represents Pr. करिहह from करिहति; 3 pl. करिहे = करिहति, and so on. Here also come in the old Purbi forms करिहहि, करिषहि, which are transitional from Pr. to Old-H. In poems in the Braj dialect occur such forms as करिहो, करिह, where the *si* has crept into

the second syllable, probably from the analogy of the *ga* type *karai-gā*. The commonest form is that given above, with short *i* in the second syllable. This is Chandel's ordinary future, as

हम मायंत सब बुझिहैं ॥

राज चंदेल न जाय ॥

"We nobles all *will fight*,

(That) the kingdom of the Chandel may not perish."

—Pr. R. xxi. 94.

के सिर तुमहि समझिहौं ॥

के सिर धरिहीं कब ॥

"Either I *will yield* my head to thee,

Or I *will put* the umbrella on my head."—Pr. R. i. 279.

(i.e. I *will either die or conquer*.)

कनकब लूटि रिधि सब हरिहौं ॥

पाछे बुध मोहौबै करिहौं ॥

"Having plundered Kanauj, I *will carry off* all your riches,

After that, I *will fight* at Mahoba."—*ib.* xxi. 87.

It is also the ordinary future throughout Tulsi Das's *Ramayana*, as

सबहि भोति पिय सेवा करिहौं ॥

भारग अनित सकल कम हरिहौं ॥

"In every manner I *will serve* my beloved,

I *will take away* all the fatigue of the journey."

—Ay-k. 399.

Also universally in Kabir, as

ना जानो कब मारिहै कवा घर कवा परदेस ॥

"Ye know not when he (*i.e.* death) *will strike*, whether at home or abroad."—*Ram.* xix. 5.

बझरि न ऐसी पैही घाना ॥

"You *will never find* such a place again."—*ib.* xliii. 2.

where पैही = पाइहो 2 pl. fut. of पाना "to find."

When the *ga* future, which is now the ordinary type in Hindi, arose, cannot be clearly defined. It is not in use in the

medieval poets, and, as has been shown above, it has not succeeded in expelling the old synthetical future from the rustic dialects.

§ 36. In M. and S. the terminations of the old present or *horist*, and those of the imperative in S., seem at first sight to differ in the active from those in the neuter verb, and some remarks are necessary in explanation of this peculiarity. The neuter सुटणे "to get loose," and the active सोडणे "to set free," are thus conjugated in the present in M.

SING. 1.	2.	3.	PL. 1.	2.	3.
सुटें	सुटेस (०टस)	सुटे	सुटूं	सुटा	सुटत.
सोडी	सोडीस	सोडी	सोडूं	सोडा	सोडीत.

Similarly in S. the neuter हलणु "to go," and the active हडणु "to give up," conjugate the present thus:—

SING. 1.	2.	3.	PL. 1.	2.	3.
हला	हलें	हले	हलूं	हलो	हलनि.
हडिवा	हडिणं	हडे	हडिजं	हडिओ	हडीनि.
	हडे				हडिनि.
	हडी				

On comparing these two sets of forms, it will be seen that the active differs from the neuter by insertion of *र* in M., and of *ह* in S. This inserted vowel has, however, disappeared in some persons, as in M. first and second plural, and in S. third singular, and, optionally, also second singular and third plural. Some writers on Marathi seek to derive the forms of the neuter from those of the Skr. *Ātmanepada*, and the forms of the active from those of the *Parasmaipada*. There is, however, a fatal objection to this argument in the fact that the Skr. *Ātmanepada* had died out of use so early as the Prakrita, and that the neuter forms of M. agree closely with the forms in use in the other languages, where there is nothing to lead us to look for

an origin from the *Ātmanepada*, inasmuch as the known changes of the *Parasmaipada* afford a satisfactory explanation, and in those languages the type which in M. is restricted to neuter verbs is used for both neuter and active. A more probable supposition is that which would derive the forms of the active in M. and S. from the Skr. causal, the characteristic *aya* having been changed in Pr. to *e*, and still further shortened in S. to *i*, while in M. the personal terminations have been blended with the *व* of *aya* into a long vowel; thus M. सोडी presupposes an earlier form सोड्यर् or सोड्ये, for it must be noted that the termination ए resulting from Skr. कृति, Pr. कर्, has been dropped in this word. So in the first sing. S. छडियाँ represents an older छोटयामि, and is thus earlier in type than M. सोडो for सोडिएँ, through सोड्यार्. The second singular in which the personal termination is retained also supports this view, for in it the characteristic ई holds the same place in the word as the characteristic *aya* of the Sanskrit causal, namely, *between* the stem and the termination: so it does in Sindhi in all the persons. The value of the comparative method is shown in cases like this where a student, who is guided by the facts of one language only, is liable to be misled, owing to want of the light supplied by the sister languages.

It is only in S. that the imperative differs in the active from that in the neuter. According to strict rule, the second singular of neuter verbs ends in *u*, as मरु "to die," imperative मर "die thou;" while in active verbs it ends in *र*, as पालु "to cherish," imperative पालि "cherish thou." Trumpp, however, gives a long list of active verbs whose imperative ends in *u*, while there are others which take both terminations. It is impossible, at present, satisfactorily to account for this irregularity, but it seems probable that active verbs in S. derived from actives in Sanskrit form the imperative in *u*, while those which are derived from S. causals form it in *र*. Should this suggestion be confirmed by further research, the *र* would

appear to be the representative of the Skr. *aya* of the causal. Thus while Skr. मर produces S. मर, Skr. पालय produces S. पालि, shortened from पाले (Pr. पालेहि). The second plural of neuters ends in *a*, as हयो "go ye!" while that of actives ends in *to* or *yo*, as हडिचो or हड्यो. The earlier form in *ihā* (Pr. हइ) is also in use as हडिहो.

In the following list there is no reason why the imperative should not end in *a*, notwithstanding the rule, for the words are derived from simple Sanskrit active verbs of the Bhā conjugation, or, if in Sanskrit of other conjugations, yet reduced to the Bhā type in Prakrit.

पठणु "to read," imp.	पठु	Skr. √ पठ्	imp. पठ.
पसणु "see," "	पसु	" पश्यति	" पश्य.
पिहणु "grind," "	पिह्	" √ पिष्	" पिहिह, but Pr. पोस (Hem. iv. 185),
चरणु "graze," "	चर	" √ चर्	" चर.
रखणु "keep," "	रखु	" √ रक्	" रख.
कहणु "say," "	कइ	" √ कथ्	" कथय, but Pr. कह (Hem. iv. 2).

आखणु "to inform," makes आखु and आखि, it is from Skr. आख्या, imperative आख्याहि, from which comes regularly आखि, through a form आखहि, but this verb may be also neuter, as in "tell! tell!" and would thus, by the masses, be formed like neuters, and have आखु. धंवणु "to blow" (with bellows), makes धंवु and धंवि, it is from Skr. ध्मा, imp. धम, whence regularly धंवु. Here the form धंवि, the ordinary form for actives, may have been introduced from forgetfulness of the special reasons for that ending in *a*. As a general result, it may be suggested that each of these peculiar verbs requires to be traced back to its origin, in which case there will generally be found some special reason for the divergence from the normal type.

§ 37. Here follows a table showing the simple tenses in each language. A common verbal stem in each is given to exhibit the method of adding the terminations.

	ARABIC.	HINDI.	PANJABI.	SINDHI.	GUJARATI.	MAHAR.	ORIYA.	MASSARAI.
	dekh "see."	dekh "see."	dekh "see."	dekh "see."	dekh "see."	dekh "see."	dekh "see."	dekh "see."
S. 1	देखूँ	देखूँ	मारूँ	हलूँ	खोडूँ	मुटूँ	करूँ	देखूँ
2	देखे	देखे	मारै	हलै	खोडै	मुटै	करै	देखे
3	देखे	देखे	मारै	हलै	खोडै	मुटै	करै	देखे
PL. 1	देखी	देखी	मारये	हलूँ	खोडो	मुटो	कर	देखे
2	देखी	देखी	मारो	हलो	खोडो	मुटो	कर	देखे
3	देखे	देखे	मारण	हलनि	खोडै	मुटत	करनि	देखे
S. 1	देखूँ	देखूँ	मार	हनु	खोड	मुटूँ	करूँ	देखूँ
2	देखे	देखे	मारो	हलो	खोडो	मुटो	कर	देखे
3	देखे	देखे	मारो	हलो	खोडो	मुटो	कर	देखे
PL. 1	देखी	देखी	मार	हनु	खोड	मुटूँ	करूँ	देखी
2	देखी	देखी	मारो	हलो	खोडो	मुटो	कर	देखी
3	देखे	देखे	मारो	हलो	खोडो	मुटो	कर	देखे
S. 1	देखिहीं	देखिहीं	मारखूँ (०म्)	देखूँ	खोडीय (०य)	देखूँ	देखूँ	देखूँ
2	देखिहि	देखिहि	मारखी	"	खोड्यो	"	"	"
3	देखिहि	देखिहि	मारखी	"	खोड्यो	"	"	"
PL. 1	देखिहि	देखिहि	मारखो	"	खोडीयो	"	"	"
2	देखिही	देखिही	मारखो	"	खोड्यो	"	"	"
3	देखिही	देखिही	मारखो	"	खोड्यो	"	"	"

§ 38. The simple tenses in the Gipsy verb, as given by Paspatis and Miklosich, differ very widely from the Indian type, and it is difficult to grasp their forms, so much have contraction and a slurring habit of pronunciation weakened the original terminations. The present among the Rumelian gipsies has the following endings: S. 1. *a*, 2. *sa*, 3. *i*; Pl. 1. *ta*, 2. *na*, 3. *na*, *n*. Thus from *kerāsa* "to do"—

Sing. 1. <i>kerāva</i> , or <i>kerāv</i> .	Pl. 1. <i>kerāsa</i> , or <i>kerās</i> .
2. <i>kerāsa</i> „ <i>kerās</i> .	2. <i>kerēna</i> „ <i>kerén</i> .
3. <i>kerēla</i> „ <i>kerel</i> .	3. <i>kerena</i> „ <i>kerén</i> .

Of the two forms, those ending with *a* are the fuller and more correct forms, and those ending in the consonant which precedes the *a* are used in ordinary conversation. The S. 2 sounds also *keresa*, *kerés*. Here we distinguish two junction-vowels *a* and *e*, as *ker-ā-sa*, *ker-ē-sa*, a peculiarity which recalls the practice in Prakrit by which the *e* originally proper to the tenth conjugation is often used in verbs of the Bhū and other types, and *as* often omitted in causals; so we have *पुहामि* and *पुहेमि*, *रोचामि* and *रोचेमि*, *हारर* and *हारेर*, *करर* and *करेर*. But with regard to the terminations, there is much difficulty; we recognize, indeed, the termination *āmi* of S. 1. in Paspatis's *āsa*, or *da*, and *asi* in his *āsa*, or *da*. So also *anti*, Pr. *enti*, reappears in *ena* or *en*. The *ela*, *el* of S. 3. may stand to *ati* in the same relation as the *ila* of O. and M. p.p.p. does to Skr. *ita*; but if so, it is a strange confirmation, and from an unexpected quarter, of what is as yet little more than an unsupported hypothesis. In the P. 2. the *ena*, *en* may have been borrowed from P. 3. for we have seen similar cases in the other languages, but the P. 1. with its ending in *a*, is entirely inexplicable.

The Syrian gipsies have retained a fuller form of the S. 1. as *jāmi* "I go," *ārami* "I come," *stāmi* "I am," and the following almost pure Prakrit words, *bihemi* "I fear," *chēmī* "I cut,"

dāmi, dāmi "I give," *jānāmi, jānēmi* "I know," *enēmi* "I bring" (from अणमि), *kināmi* "I buy" (क्री), and others (Miklos. ii. 4).

The imperative is the only other simple tense, it has the forms *ker* "do thou," *kerēn*, do yo," *me kerē* "let him do," *me kerēn* "let them do." The meaning and origin of this prefix *me* is not explained by Paspatis, and I am not aware of anything in the Indian languages with which it can be connected. It is probably a construction borrowed from modern Greek, or Turkish, or some of the languages spoken in or near Rumelia. The imperative is, in its general form, precisely analogous to the languages of our group, but there is nothing specially noteworthy about it.

CHAPTER III.

THE PARTICIPIAL TENSES.

CONTENTS.—§ 39. DEFINITION OF THE PARTICIPIAL TENSES.—§ 40. THE PARTICIPLE ACTIVE.—§ 41. TENSES FORMED THEREBY—THE SINDHI FUTURE.—§ 42. MARATHI INDICATIVE AND CONDITIONAL PRESENT.—§ 43. BENGALI AND ORISSA CONDITIONAL.—§ 44. HINDI, PANJABI, AND GUJARATI PRESENT.—§ 45. THE PAST PARTICIPLE PASSIVE.—§ 46. EARLY TADHATA PARTICIPLES IN SINDHI AND PANJABI.—§ 47. THE SAME IN GUJARATI AND MARATHI.—§ 48. THE SAME IN OLD AND NEW HINDI.—§ 49. TENSES FORMED FROM THE PAST PARTICIPLE.—§ 50. THE *PRATOGA*.—§ 51. THE FUTURE PARTICIPLE PASSIVE.—§ 52. TENSES FORMED FROM IT IN SINDHI, GUJARATI, AND MARATHI.—§ 53. THE FUTURE IN ORISSA, BENGALI, AND EASTERN HINDI.—§ 54. THE HINDI AND PANJABI FUTURE.—§ 55. MARATHI FUTURE COMPARED WITH THAT IN CERTAIN HINDI DIALECTS.—§ 56. SYNOPSIS OF THE PARTICIPIAL TENSES IN ALL SEVEN LANGUAGES.—§ 57. PARTICIPIAL TENSES IN THE GIPSY VERB.

§ 39. So widely has the modern verb diverged from its parent, that the simple tenses, in which there still remain traces of the ancient synthetic structure, are, as we have just seen, extremely few. Far more numerous in all the languages are those tenses which are formed by the aid of a participle derived directly from the Prakrit. These tenses may be divided into two classes, (1) consisting either of a participle alone, as in H. *chalā* "he moves," which is really "moving (he is)," or of a participle, to which are attached much-worn fragments of the old Sanskrit substantive verb, as in M. *hasato* "thou laughest," which is really "laughing thou art," Pr. *hasanto 'si* (whether the remnant of the substantive verb still appear, or whether it have entirely dropped out, in either case the principle underlying the formation is the same, and words

like H. *challā*, and M. *hasato*, belong, therefore, to the same category) : (2) consisting of a participle, to which is subjoined a substantive verb, the two words standing separate, but forming one phrase, as in H. *dekhā hai* "he sees," i.e. "he is seeing," M. *likhā dho* "he is writing."

Between these two classes there is this fundamental difference, that in the former the traces of the substantive verb which do exist are still in the Prakrit stage of development, whereas in the latter the substantive verb, which is combined with the participle, is not in the Prakrit shape, but is a later form, evolved by the languages out of the Prakrit.

The first of these two classes I propose to call "participial tenses," and they will be treated of in this chapter; the second I shall call, following the example of the grammarians, "compound tenses," and shall reserve their discussion for another chapter.

The participle used in the formation of tenses may be traced back to the Prakrit equivalents of the following Sanskrit participles.

1. The present Active (Parasmai.), as in पचन् *m.*, पचन्ती *f.*, पचत् *n.*
2. The past Passive (with inserted **इ**), as in छतस् *m.*, छता *f.*, छतं *n.* (Pr. करिओ etc.).
3. The future participle Passive or verbal adjective, as in दातव्यस् *m.*, *तव्या *f.*, *तव्यं *n.*

To these must be added certain much abraded forms of special past participles, which are used in a peculiar way in three of the languages, as will be shown hereafter, and it must be borne in mind that, especially in the case of the past participle passive (noted as p.p.p.), it is the Prakrit forms that are to be looked to, rather than those which occur in classical Sanskrit. The classical language does not prefer to insert the intermediate **इ** in the p.p.p., but the popular languages do prefer it to a very great extent, so much so, that it has almost

become the rule to insert it, and the cases where it is omitted may be classed as exceptions.

§ 40. The participle of the present active in Pali and the Prakrit takes the forms of the *a*-stem of nouns, and retains the nasal throughout; thus पचंतो *m.*, पचन्ती *f.*, पचन्ते *n.* The variations introduced by the conjugational peculiarities of the Sanskrit verb are neglected, and all roots take this one form.

Sindhi reproduces this universal Prakrit form with softening of त into द, and declines it for gender and number thus (*hal* "go")—

Sing. हलंदो *m.*, हलंदी *f.* Pl. हलंदा *m.*, हलंदिज *f.*, "going."

In active verbs, with which must be reckoned causals, the characteristic *i* appears (§ 36), but here lengthened to *i*, as (*bhar* "fill")—

Sing. भरिंदो *m.*, भरिंदी *f.* Pl. भरिंदा *m.*, भरिंदिज *f.* "filling."

There are some minor exceptions and contractions which may be learnt from the special grammar of the language, but the forms given above are the regular types.

Panjabi retains the nasal in verbs ending in vowels, as *jā* "go," जांदा "going," *ho* "be," होंदा "being," *seu* "serve," सेवदा "serving." In some of the rustic dialects the nasal is retained also after stems ending in a consonant, thus I have heard मारंदा or मरिंदा "beating." In the classical dialect, however, the nasal is omitted after a consonant, as singular मारदा *m.*, मारदी *f.*; plural मारदे *m.*, मारदीयां *f.* Not unfrequently the द is dropped, and we hear जाना, जना for जांदा, जंदा.

Hindi has two sets of forms; one indeclinable originally ended in *ant*, and still exists in several rustic dialects with the termination *at*. Chand inserts or omits the nasal at pleasure, to suit his metre, as चरन तीन भज्जांत "possessing three feet"

(Pr. R. i. 61); **अवन सुनत होइ भंग** : "the ear *hearing*, it is broken" (*ib.* i. 159); **रञ्जत** "shining," **सज्जत** "arraying," **सुमेत** "being beautiful," **कटत** "being cut," etc. (*ib.* vi. 18), but **बजत** "playing (music)," **चढत** "mounting (a horse)" (xix. 3). Tulsī Das chiefly uses the latter form, as **जात** "going" (Rām. S.-k. 7); **गुञ्जत** "humming" (*ib.* 9); **ध्यावत** "meditating," **पावत** "finding," **भावत** "being pleased," **गावत** "singing" (all in Ay.-k. 1); and this is also common in most mediæval poets, thus Bihārī Lāl **धरत** "placing" (Sat. 6), **परत** (**पडत**) "falling" (*ib.*), **सोहत** "being beautiful," **जसत** "appearing," **चहियत** "looking" (*ib.* 7, 9, etc.). Kabīr **जियत** "living" (Rām. 30, 5); **बंधत** "being bound" (*ib.* 31, 3). It survives in all the dialects of the eastern Hindi area, in Oudh, Biwa, and Bhojpur, and even in the Gangetic Doab.

The other form ends in a vowel, and is in use in classical Hindi, as sing. **मारता** *m.*, **मारती** *f.*; pl. **मारते** *m.*, **मारती** *f.* "beating." In the Braj dialect it takes the forms **मारतु** *m.*, **मारति** *f.*; pl. **मारत** *m. f.* The Garhwali dialect preserves the older form, as **मारनो**, but has also, as have the Rajputana dialects, **मारतो**. Kellogg gives also a Kumaon form **मारनू**, which probably arises from **मारनो**, just as Panjabi **जाना** from **जादा**.

It would seem that, to account for the co-existence of these two forms, one ending in a consonant, and the other in *a* (=o), we must have recourse to Hoernle's theory of the *ka*-affix, and derive **करत**, **करत** from Pr. **करनो**, while we derive **करता**, **करता** from a Pr. **करंतको**. The *ka*-theory, however, thus begins to assume rather formidable dimensions, and will, ere long, require a whole treatise to itself.

Gujarati has also two forms, one indeclinable ending in **ता**, as **छोडता** "loosing," the other declinable, as sing. **छाडतो** *m.*, **ती** *f.*, **तुं** *n.*; pl. **छोडता** *m.*, **ती** *f.*, **तां** *n.* The terminations are those of the adjective in this language (Vol. II. p. 150). There is also a form of the indeclinable participle in **ते**, as **छोडते**, which,

like the Bangali, is apparently the locative singular, while that in *तां* has the ending of the old nom. pl. neuter, though, in sense, it approaches more to the locative, as *मारा बंधने कोइतां तारा दांत भागा* "If in *loosing* my bonds thy teeth should break." Vans Taylor, however, distinguishes two separate words with this ending, one of which he would derive from the locative singular of Sanskrit feminines, as *रंगायाम्*, the other he would derive from the Skr. infin., as *कर्तुं*. The first form he assumes to have been the origin of such phrases as *मारे आवतां* "on my coming," the second, of such as *करतां शिक्षवेहे* "he teaches to do." This, however, is very doubtful.²

Two forms are also observable in Marathi, or rather two sets of forms. The indeclinable ends in *त*, *तां*, and *तांगा*, as *सुटत*, *सुटतां*, *सुटतांगा*. The first of these agrees with Hindi, the second with Gujarati, and the third is merely the second with an enclitic particle *गा* added for emphasis. In active verbs the characteristic *त* appears, as *खोडीत*, *खोडीतां*, *खोडीतांगा* "loosing." There is also a declinable form, which, however, is not now used as a participle, but appears in the third person of the present tense, thus sing. *सुटता m.*, *सुटती f.*, *सुटते n.*; pl. *सुटते m.*, *सुटत्या f.*, *सुटती n.*

Oriya has only one form for the present participle. It is indeclinable, ending in *उ* or *उे*, as *देखु*, *देखुे* "seeing." Of these two forms, that with the nasal is the older, though now less used, and probably comes from the Pr. neuter in *न्तं*, though the intermediate steps are not easily traced.

Even in the earliest writings in Bengali there is no regular present participle, but a form derived from the locative of the Prakrit is in use. It ends in *रते*, as *देखिते*, and is now used as an infinitive, meaning "to see." Literally, it means "in seeing," and is used in this sense by Bidyapati, and the older poets. Thus *केग निहाइते रहे जल धारा* "In *urining* (or

¹ Lecky, Grammar, p. 179.

² Grammar, p. 113.

from wringing) her hair there flows a stream of water" (Pr. K.-S. 13, 15); **हेरादते हृदये शान्तं पावसान्** । "On seeing (her), love smote him in the heart" (*ib.* 15, 7). Even here, however, it becomes almost an infinitive, as **आरते पेल्लु नाहृ मोरी** । "I saw the fair one go to bathe (i.e. in going, or while going)" (*ib.* 13, 13); **कानु हेरादते एवे भेल परमाद्** । "In seeing (or to see) Kānk, there has been now delight" (*ib.* 20, 10). So **भारते शुनिते पारव समाचार** "By causing to hear, and by hearing, I shall obtain news" (Bidya S. 247).

§ 41. Having thus given the forms of the present participle, we next proceed to exhibit the tenses constructed therefrom, either with or without the addition of fragments of the old substantive verb, and it will be seen that there is great variety in the practice of the respective languages, though all the variations are sufficiently alike to justify their being classed generally as structurally present tenses. In some cases the sense of present time is more clear and definite than that afforded by the old present of the synthetic system, or, as we now call it, the *corist*, while in others it has wandered away in different directions.

Sindhi,¹ to begin with, makes this participle into a future. In the third person of both numbers the participle is used without any addition, thus

Sing. **हलंदो** *m.*, **हलंदी** *f.* Pl. **हलंदा** *m.*, **हलंदिज** *f.* "he, she, etc., will go."

The second person, however, retains traces of the substantive verb **अस्** "to be," though much abraded and indistinct, it runs

Sing. **हलंदे** *m.*, **हलंदिअ** *f.* Pl. **हलंदउ** *m.*, **हलंदिज** *f.* "thou, ye, etc., will go."

The singular masculine ends in **हे**, just as does the corre-

¹ This section follows, for the most part, Trumpp, pp. 280, 291, etc.

sponding person of the aorist, and we may resolve it thus, *halando asi* = *haland' asi* = *haland' ai* = *halandē*. The anuswāra is here, probably, as in the aorist, put in to fill up the hiatus caused by loss of *s*, and first stood over the *a* of *ai*; when these two syllables were contracted into one, it took its place over that one. In the singular feminine we start from *halandī asi*, where the final long *i* of the participle is shortened, and *asi* = *ai* = *i*, giving *halandī*, a form still in use, though Trumpp gives as the classical type the still further contracted *halandī*. The plural masculine arises from *halandā stha*, where *stha* has become *tha*, and then *ha*; the *h* being dropped, we get *halandā* = *halando*, subsequently resolved into its present form *halandaṇ*. The plural feminine is merely the feminine of the participle, there is no trace of the substantive verb.

In the same way may be explained the first person of both numbers.

Slog. हलंदुमि *m.*, हलंदियमि *f.* Pl. हलंदासी *m.*, हलंदियसी *f.*

Here, again, we meet an instance of the curious change of *झ* into *स*, which we observed in the Panjabi and Sindhi pronouns of the first person plural *असी* and *असा* (Vol. II. p. 308). Thus *halando asmi* becomes *halando asi*, then *halanda 'si*, the final *o* being shortened to *u*. In the feminine, however, the elision of the *a* of *asmi* cannot take place by the old laws of Sandhi; instead, the *i* of the participle changes to its semivowel, producing *halandy asi*, which the Sindhians in the present day write either as above, or हलंदयमि, or even हलंदियमि. As to the termination *सी* of the plural, I am disposed to regard it as formed by analogy from a singular *मि*, rather than, with Trumpp, as a derivative of Skr. *सः*, which, if the *म* be rejected, would yield *सो* or *सु*, but not, according to any known processes, *सी*.

§ 42. Closely analogous to the Sindhi future is the definite present in Marathi. In this tense, as in the S. future, the third

person preserves no trace of the substantive verb, and in this respect curiously resembles the periphrastic future of Sanskrit (*bodhitāsmi, bodhitāsi, but bodhitā*).

The participial form which enters into the composition of this tense is, apparently, not used alone in a participial sense. **करितो** or **करिता** would always imply "he does," never "doing." For the purely participial sense the indeclinable participles given in the last section are used.

There is much more difficulty in tracing out the Marathi persons than those of Sindhi, not only because the remains of the substantive verb are more abraded, but because in the second and third persons there are two sets of terminations, one of which is used when the sense is that of the indicative present, the other when it is conditional.

Beginning with the third person, we have these forms (*suf* "escape") :

Indicative. Sing. **सुटतो** *m.*, **तो** *f.*, **ते** *n.* Pl. **सुटतात** *m., f., n.*, "he, she, etc., escapes."

Conditional. Sing. **सुटता** *m.*, **ती** *f.*, **तें** *n.* Pl. **सुटतें** *m.*, **त्वा** *f.*, **तीं** *n.*, "were he, etc., to escape."

Here the indicative strikes us at once as the older type; adjectives do not now in M. end in *a* in the masculine singular, though they did so in Maharashtri Prakrit; the *to* of the indicative therefore preserves the earlier form. So also in the plural there is but one form for all three persons which contains the verb *anti*, in Old-M. changed to *ati*, just as in the third plural of the *porist*, but with disregard of the varying terminations for gender of the modern participle. The conditional, on the other hand, is simply the modern participle, with its full range of endings for number and gender.

The second person runs thus :

Indicative. Sing. **सुटतोस** *m.*, **तीस** *f.*, **तेंस** *n.* Pl. **सुटतां** *m., f., n.*

Conditional. Sing. **सुटतास** *m.*, **तीस** *f.*, **तेंस** *n.* Pl. **सुटतां** *m., f., n.*

Again, in the indicative, the older ending in *o*, *sufatox* = *sufato* 'asi (*asi*) ; while in the conditional, *sufatda* = *sufatā asi*, with the modern ending in *d*. The plural, however, is the same in both, and agrees in termination with the aorist. The first person is the same in both indicative and conditional, and is—

Sing. सुटतौ *m.*, ते *f.*, तौ *n.* Pl. सुटतौ *m. f. n.*

Final anuswāra here represents probably Pr. sing. *amhi*, pl. *amho* ; but the *smdhi* is irregular, as *f. sufatō* = *sufatā amhi* ; the variant *sufatyā*, used in the Konkani, is more regular for *sufity amhi*. The pl. *sufatō* = *sufatā amho*, where, again, the steps of transition to *sufatō* are difficult to work out.

§ 43. A similar use of the participle, in a conditional sense, occurs in Bengali and Oriya. In the former, the present tense is made up by using an auxiliary, and it will come under discussion in the next chapter, but the conditional has traces of the old Pr. form of the verb, and therefore belongs to this place. The tense is (*dekā* "see")—

Sing. 1. देखिताम. 2. देखितिस. 3. देखित. Pl. 1. देखिताम. 2. देखिता. 3. देखितेन.

The participle here has lost its terminations for gender, as the Bengali adjective has (Vol. II. p. 147) : *dekhitaṁ* therefore = *dekhita aami* = *dekhita amhi* in the sing., and *dekhita amho* in the pl., lit. "seeing I am ;" *dekhita* = *dekhita asi*, where, on the analogy of the aorist, the *i* has crept into the penultimate (now ultimate) syllable ; *dekhita* similarly = *dekhita itha*, whence *dekhita tha* = *dekhitaha* = *dekhita*. So, also, *dekhiten* = *dekhita (s)anti*, with the same treatment of the verb as in the aorist. The third singular is the simple participle.

In Oriya this tense runs thus :

Sing. 1. देखति. 2. देखतु. 3. देखता. Pl. 1. देखतु (तु). 2. देखत. 3. देखते.

In this tense is preserved the older form of the participle Pr. *dekhanto*, O. *dekhantā*, which, as usual, appears unchanged in the third sing., as also the pl. Pr. *dekhante* preserved in the 3 pl. The other persons exhibit only slight modifications of the terminations of the aorist, which are those of the Sanskrit present *asmi*, *asi*, etc.

In B. and O. this tense is used with **अदि (यदि)** "if," prefixed, "if I were to do," etc.; when used alone, it means "I might or should do," and in B. narrative it occasionally appears as an habitual past, "I used to do."

It should also be mentioned that just as the Bengali pandits have banished the old singular of the pronoun and declared it vulgar, so they have branded the singular number of all their tenses as low, and those grammarians who write under pandit influence gravely assure us that "the singular and plural are the same in Bengali verbs, and it is the nominative case before them which determines whether they are singular or plural" (Yates's Gr., ed. Wenger, p. 43). When they come to the real old singular, their agitation is extreme, they are too honest to leave it out, and too fastidious to put it in. So they preface it thus, "If a person speaks with the greatest humility of himself, or with the greatest contempt of another, he employs this form; but it is not found in good composition. We should have been happy to pass it over entirely; but to enable the student to understand what he will *but too often* hear (alas! yes, far too often, in the mouths of ninety-nine out of every hundred persons in Bengal), it seems necessary to give one example" (*ib.* p. 47).

The best Bengali poets had not discovered that these forms of their mother-tongue were low or vulgar down to the beginning of the present century. In a page opened at random in the Mahabarat of Kasiram Das occur रहिन "he remained," बलिना "he said," जिज्ञासिना "he asked," दियाहे "he has given," होरवे "he shall be," Kabi Kankan uses पडिबि "thou

shalt fall," मरिणि "thou diedst," आहिनु "I was;" and Bharat Chandra, दिनि "thou hast done," पानु "I found," and innumerable other forms, which would be classed as vulgar by the parists of the present day.

§ 44. In the remaining languages, Hindi, Panjabi, and Gujarati, both forms of the present participle are used as an indefinite present tense, without any trace of the old substantive verb. The indeclinable form occurs constantly in Chand, thus कातिक करत पङ्कट सनान । गोकेन महात्म सुनत कान ॥ "In Kartik he performs ablutions at Pubkar, and *hears* with his ears the glories of Gokarn."—Pr. R. i. 198. The long list of words of this form in vi. 39, describing the fight at the darbâr, may be construed either as participles or present tenses. It is one of those scarcely translatable jingles of which Chand is so fond धुकेत धार धार सौ । बकेत मार मार सौ ॥ झुकेत झार झार सौ । तकेत सार सार सौ ॥ and so on for fifty lines. Perhaps the meaning may be thus roughly paraphrased—

They thrust with sword-edge biting,
They shout the shout of smiling;
They crouch from weapons sweeping,
They watch the steel blade leaping.

The meaning is clearer in other places. चलत पवन पावक समान । तपस्वत मुताप मन । सुकत सरोवर मचत कोच । तलफत मीन तन ॥ (Pr. R. ix. 17), "The wind *blows* like to fire, distressing the mind (as if with) penance, the tanks *dry up*, the mud is *stirred up*, the fishes' bodies *pant*." So in Bihari Lal, मकराकृत गोपाल छे कुंडल सोहत कान । धर्यौ मनौ हिय घर समर झोंकी लसत निशान ॥ "The dolphin-shaped earring *shines* (sobat) in the ear of Gopal, as the flag of love *appears* (lasat) at the threshold while he enters the heart" (Sat. vi.). He constantly uses the feminine Braj form in ति both as a participle and a present. कहति न देवर की कुवत कुनतिय कलह डराति ॥ पंजर

मत मंत्रार दिन शुभ लौं मूखति जाति ॥ "The virtuous wife *does not repeat* the bad words of her husband's younger brother, *fearing* (darāti) a quarrel, but *dries up* with fear, like a parrot when a cat approaches its cage" (Sat. xv.).

In classical Hindi both forms are used as a present tense, it is unnecessary to give instances, as the practice is universal. The same is the case in P., where मैं बन्दूदा "I send," is the ordinary indefinite present. मछर दी रोकी मुँह कुही दे मुँह पाउंदे "They put a lump of sugar in the mouth of the boy and girl."¹

Classical Hindi also uses this participle, with "if" prefixed as a past conditional; thus they say यदि मैं जानता तो कबही नहीं जाता "Had I known, I never would have gone,"—a similar practice to that of O. and B. mentioned in the last section.

The declinable participle is used in G. as a past habitual, or as a subjunctive aorist, according to the grammarians, so that ऊँ छोड़तो means "I used to loose," or, "I should loose." In the former sense it is employed in the same way as the old present or aorist ऊँ छोड़ूँ. The example given is तमे बराबर भाग राखता (pl. masc.) नहीं "you used not to keep a fair share."² Most commonly, however, it is used with an auxiliary verb in a variety of meanings, this language being very fertile in the production of compound tenses.

§ 45. The passive past participle in Sanskrit has many forms; the simplest, though least widely used, in the classical language, is, however, that in *ita* (*itas, ita, itam*), as पतित "fallen." The त् of the affix, as would be expected, becomes in the higher Prakrits द्, and in the more common dialects falls out altogether; thus we have हानिद् = हारित "lost," मुसिदो = मूषित: "robbed," गृहिद् = गृहीत "taken," and many others.

But Var. vii. 32 admits even in Maharashtri the form from

¹ "Panjab Customs," in Appendix to Panjabi Grammar, Loodhiana, p. 91.

² Lecky, Grammar, p. 109.

which the **द** has entirely dropped, and instances हसिचं for हसितं "laughed," पडिचं for पडितं "recited," and this form has become the type of most modern languages. In Old-Hindi this participle regularly ends in sing. **यौ** *m.*, **ई** *f.*, pl. **ए** *m.*, **ऐ** *f.*, as जळी *m.*, जळी *f.*, etc., "burnt." Here the **य** represents the **इ** of the Prakrit, hardened into a semivowel before the final vowel. In the feminine it is merged in the **ई** of the affix, and in the plural lost altogether, for जळी easily passes into जले.

Chand uses this form throughout, as तन रह्यो ओति गव देव बान। "his body remained bright, he went to the abode of the gods" (l. 299); क्यौं "done," ग्यौं "gone," etc. It is, however, more frequently used as a tense than as a participle, and further illustrations will be given in a following section.

The form in **यौ** lasts all through the mediæval poets, and is still in use in the dialects of Rajputana and in Braj. In the former a slight change has occurred, sing. **मार्यौ**, pl. **मार्यो**, while in Kumaon the form is sing. **मारियो**, pl. **मारिया**.

Modern classical Hindi has sing. **मारा** *m.*, **मारी** *f.*; pl. **मारि** *m.*, **मारी** *f.*, "struck."

Panjabi retains the **इ** of the Prakrit, and has sing. **मारिआ** *m.*, **मारी** *f.*; pl. **मारि** *m.*, **मारीयो** *f.*, "struck;" so also does Sindhi, sing. **हलिओ** or **हलो** *m.*, **हली** *f.*; pl. **हला** *m.*, **हलिओ** *f.* Trumpp seems to be here in error in saying that the **य** has been inserted to fill the hiatus caused by the elision of the **इ**. It is rather the **इ** of **इदो** hardened to a semivowel, as in Old-H. and P.

Oriya has rejected the final syllable, just as it has in its present participle, and has an indeclinable past participle in **इ**, as **dekhi**. This is never used alone, but only in composition, with an auxiliary forming a tense. The past participle used to form the passive ends in **इ**, like H., as **dekhi jāi** "to be seen."

The same form is found in Gujarati, as sing. **હોયો** (**chhodyo**) *m.*, **હોયી** *f.*, **હોયું** (**chhodyū**) *n.*; pl. **હોયા** *m.*, **હોયી** *f.*, **હોયા** *n.*

G., however, in common with M. B. and O., has another

form of this participle ending in an affix, whose special type is **ल**. The forms may be brought together for comparison—

G. Sing.	छोड़ेनो <i>m.</i> ,	छोड़ेनी <i>f.</i> ,	छोड़ेनु <i>n.</i>
M. (neuter) Sing.	सुटना <i>m.</i> ,	सुटनी <i>f.</i> ,	सुटने <i>n.</i>
„ (active) „	सोड़ना <i>m.</i> ,	सोड़नी <i>f.</i> ,	सोड़ने <i>n.</i>
G. Pl.	छोड़ना <i>m.</i> ,	छोड़नी <i>f.</i> ,	छोड़ना <i>n.</i>
M. (neuter) Pl.	सुटने <i>m.</i> ,	सुटनी <i>f.</i> ,	सुटनी <i>n.</i>
„ (active) „	सोड़ने <i>m.</i> ,	सोड़नी <i>f.</i> ,	सोड़नी <i>n.</i>

B. देखल, in Old-B. देखला (only used as a tense combined with *as*), देखने “having seen.”

O. देखल (the same), देखने *id.*

The Bhojpuri dialect of Hindi has also an indeclinable past participle **मारल**, in some districts also **मारला**, from which it forms a tense.

Here the junction vowel varies much. In B. O. and the active of M. it is **इ**. In G., on the other hand, it is **ए**, while in the neuter of M. it is **अ**. M. has a long string of verbs, both active and neuter, with the junction vowel *i*; some of these are causals by origin, as **पठ** “flee,” p.p. **पठाना**, for *paid-ild* (as in B. and O. **पसाइल**). Others, again, owe the long vowel to a Skr. *ay*, as **उड़** “fly,” p.p. **उड़ाना**, Skr. **उड्डयित** √ **उड** + **डी**. Others are denominatives, as **दीप** “be dazzled,” **दीपाना**, Skr. **दीपयित**; there are, however, some which I am not able to explain on any of the above grounds. The list comprises about thirty verbs only, and in twenty-five of them participles, with the junction vowel *a*, are also in use.

The usual explanation of this form in *i* is that it is derived from the Skr. p.p.p. in *ita*, through Pr. *ido*, by change of **इ** to **उ**, and thence to **ल**. The change is undoubtedly possible as far as **इ** and **ल** are concerned, or as far as **त** and **इ** are concerned; but the change from **इ** to **उ** is a great stumbling-block. The great authority of Lassen (p. 363) is usually quoted in

support of this view, but even he cannot avoid being struck by the coincidence between this and the Slavonic preterites in *l*.

As regards the change from *द* to *ड*, it is observable that it only occurs in those Skr. preterites which contain a cerebral. Thus *कृत* becomes in Magadhi *कडे* (Mr. 270). Here, however, there was evidently a form *कर्त = कट = कड*, so that there is no question of a *द* at all. So also in *वाचड* for *वापृत = वापर्त = *पट = *पड* (Mr. 227). The only other instance known to me is *गडे* for *गत* (Mr. 276), but here we may fairly assume a false analogy with *कडे = कृत*. So widespread a form as the modern participle in *l* must rest upon some firmer proof than the rare examples given above.

I am disposed to think that we have in this participle the survival of an ancient form which has not been preserved in classical Sanskrit, nor in the written Prakrits. Perhaps (but here I tread on ground somewhat beyond my own domain) that type of the passive past in Skr. which ends in *न* or *ञ* may be the classical representative of this ancient form; thus we have from *√क्ष* "cut," *क्षनः*, from *√भिद्* "cleave," *भिन्नः*, and in some roots both forms, that in *त* and that in *न*, stand side by side, thus *√पू* "fill," makes *पूर्णः* and *पूर्तः*, *√वृद्* "push," *वृत्तः* and *वृत्तः*.

Even in the Slavonic languages, however, the characteristic *l* of the preterite is thought to have arisen from an original *d*, and that again from *t*.¹ If this be so, we have here an ancient change which took place before the separation of the various members of the Indo-European family, and not a mere local corruption confined to Indian ground. In Russian the preterite is a participle with forms for gender, thus from *dielal'* "to make," pret. sing. *dielal' m.*, *dielala f.*, *dielalo n.*, pl. *dielali m/f.*² In Servian the same form occurs, *trés* "to shake," has—

Sing. *trésao m.*, *trésala f.*, *trésalo n.*

Pl. *trésali m.*, *trésle f.*, *trésala n.*

¹ Rapp, *Verbal-organismus*, vol. i. p. 69.

² Reich, *Russ. Grammar*, p. 97; Rapp, vol. i. 137.

Compare Marathi—

Sing.	trāsālā,	trāsālī,	trāsālē.
Pl	trāsālā,	trāsālyā,	trāsālī

from वासये "to trouble." The similarity is striking, and seems to be more than a mere accidental coincidence. Moreover, the connection between this Slavonic *l* and *n* is shown in more than one instance. Thus, the Russian verb has from *net* "to drag" a pret. past sing. *nesén m.*, *neséna f.*, *neseno n.*, pl. *neseny*. The same form occurs in the Czech.

But we are getting beyond bounds. The comparison is attractive, and, if there were time to study the Slavonic languages as well as the Indian, might perhaps be worked out to some conclusive result. All that can be said at present is that two groups of the same family have a preterite in *l*, and that there may be some connection between the two; while, on the other hand, the derivation of this preterite from a past participle in *t* seems strained and ill-supported as regards the Indian group, and if true for the Slavonic group, must have occurred a long while ago, before the separation of the families, and has strangely failed to leave any traces of itself in the most important language of the Indian group in its most cultivated stage.

§ 46. Let us turn to matters more within our scope. The passive past participle is the only part of the modern verb which affords an exception to the general rule of the unchangeableness of the stem-syllable. Each one of the modern languages has a few such participles, which, being derived from the Prakrit developments of the Skr. p.p.p., differ from their respective verbal stems, which latter are derived generally from the form of the root used in the present tense. These early Tadbhava participles, as they may justly be called, are most numerous in Sindhi. Trumpp gives (p. 273) a list of no

less than 140 of them, a number which far exceeds that to be found in any other of the languages. They owe their existence chiefly to the omission in Skr. of the intermediate **र**, so that the affix **त्** of the p.p.p. is added directly to the root, and when this root ends in a consonant, there arises a strong or mixed nexus, which in Prakrit has to be dealt with according to the ordinary phonetic laws. Sometimes, as we saw in § 14, the stem of the verb itself is entirely borrowed from the p.p.p., and in that case the modern participle does not differ from the rest of the verb; but when the ordinary stem is derived from the older present, and only the participle from the old p.p.p., the two differ so much that it is difficult at first sight to recognize the connection between them.

The verbs given in § 19 have mostly old Tadbhava participles, and it is through these participles that the clue is found to the derivation of the verb. Thus—

STEM.	SKR.	P.P.P.	SKR.	PR.
बध् "be bound"	√बध्	बधो (quasi बंधित बंधो).	बद्ध	
बंध "bind"				
बुध् "be heard"	√बुध्	बुधो	बुद्ध	
बुंध "hear"				
रध् "be cooked"	√रध्	रधो	रद्ध	
रंध "cook"				
लभ् "get"	√लभ्	लधो	लब्ध	लब्धो
लभ "be got"				
दुभ् "be milked"	√दुह्	दुधो	दुग्ध	दुद्धो
दुह "milk"				
दह् "torment"	√दह्	दधो	दग्ध	दद्धो
मव् "be broken"				
मज् "break"	√मज्	मगो	मप	मगो
मुज् "be fried"				
मुज "fry"	√धज्	मुगो	मुट	मुट्ट (analogy of मज्)

STEM.	SKR.	P.P.P.	SKR.	PR.
खिन्न "be broken"	✓ खिद्	खिनो	खिन्न	
खिन्न "break"				
सुन्न "be heard"	✓ सु	सुन्नो	सुन्न	
सुन्न "hear"				
खण्ण "raise"	✓ खण्द	खणो	खण्ण	खणिच्चो
कुह "kill"	✓ कुप्	कुठो	कुट्ट	कुट्ठो
कुस "be killed"				
गह "rub"	✓ घृप्	गठो	घृट्ट	गिट्ठो, गट्ठो
गस "be rubbed"				
कुह "touch"	✓ छुप्	कुतो	कुप्त	कुत्तो
कुप "be touched"				

The exact coincidence of these participles with the Sanskrit and Prakrit confirms the derivation of the verbal stems given in § 19. There are many others equally instructive as retaining the Prakrit form; thus, for instance, we can explain the following :

S.	SKR.	S. P.P.P.	SKR.	PR.
लज्ज "smear,"	✓ लिप्	लितो	लिप्त	लित्तो
तप "warm,"	✓ तप्	ततो	तप्त	तत्तो
सुम्ह "sleep,"	✓ स्वप्	सुतो	सुप्त	सुत्तो
पा "got,"	✓ प्राप्	पातो	प्राप्त	पात्तो [?]
आण्ण "bring,"	✓ आनी	आंदो	आनीत	
रु "weep,"	✓ रुद	रुनो	रुदित	रुणो

So also the origin of उघण्ण "wipe out," is obscure, till we look at the p.p.p. उघटो, which leads to Skr. उवृष्ट, and then we see that *ughaṇṇu* is for *ughaṇṇu* = *udgharṣaṇam*. The participles in *tho* similarly explain themselves, as

S.	SKR.	S. P.P.P.	SKR.	PR.
डिस "see,"	✓ दृन्	डिटो	दृष्ट	दिट्ठो
वस "rain,"	✓ वृप्	वटो, वुटो, उटो	वृष्ट	वुट्ठो

३.	३३३.	३. P.P.P.	३३३.	३३.
पिह, पेह "enter,"	√प्रविन्	पेठो	प्रविष्ट	परद्वो (H. पेठ)
विह "alt,"	√उपविन्	वेठो	उपविष्ट	उपरद्वो (H. वैठ)
पीस "grind,"	√पिप्	पीठो	पिष्ट	पिट्टो
तुस "be pleased,"	√तुप्	तुठो	तुष्ट	तुट्टो

The next three words have old Tadbhava participles in almost all the languages of this group :

डिक्खणु "give," p.p.p. डिनो, Pr. दिखो.

करणु "do," " कीतो, किचो, कयो. Skr. कृत, Pr. किचो, *see*
under H.

मरणु "die," " मो, मुचो, Skr. मृत, Pr. मुचो.

Another class is composed of denominatives or neuter verbs with the causal type *ām* (§ 28). These are

Infia. उभामणु "to boil over,"	p.p.p. उभाणो
" उझामणु "to be extinguished,"	" उझाणो
" उडामणु "to fly,"	" उडाणो
" झपामणु "to decrease,"	" झपाणो
" खामणु "to be burnt,"	" खाणो
" विसामणु "to be extinguished,"	" विसाणो
" विकामणु "to be sold,"	" विकाणो

There is, as already mentioned, considerable obscurity as to the derivation of these words : *udāmaṇu* is, however, certainly from Skr. *ud-dī*, p.p.p. *dīna*; *ujhāmaṇu* perhaps from Skr. *ut-kṣhi*, p.p.p. *kṣhīna*; *vikāmaṇu* from Skr. *vikrī*, p.p.p., however, not *krīṇa*, but *krīta*. On the analogy of those verbs whose p.p.p. ended in *na*, may have been formed the modified p.p. in *no* for all verbs of the class, regardless of the fact that in the classical language the causal p.p. would end in *āpita*, e.g. *śikhāpita*. In

Hindi, also, stems ending in *d* take this p.p. in *so* in the poets as **फिरा**, p.p. **फिरानो**, or apocopated *n*, as **रिसा** p.p. **रिसान**.

The above remarks explain nearly half the words in Trumpp's list, for the rest the uncertainty is too great to admit of satisfactory explanation. Trumpp, for instance, would derive **झारणु** "to satisfy," and **झापणु** "to be satisfied," from Skr. $\sqrt{\text{तृप}}$, **तर्पति**, but the p.p.p. **झाप्पो** can hardly represent **तृप्त**. Others again there are whose p.p. is intelligible, while the infinitive is not. **जुतो** "engaged" (in work) explains itself by Skr. **युक्त**, Pr. **जुत्तो**, clearly enough, but its infinitive should be *jūjanu* or *jūjānu* (Pa. **युजति**). Whence then comes it that the infinitive is *jumbānu*? So also **रुल्लो** "busily employed" is clearly Skr. **रुह** (**रुध्**), one form of the infinitive *rujhanu* is regularly derived from Skr. **रुध्यते**, but what are we to say to another form *rumbhānu* or *rubhānu*?

Punjabi has several of the same early Tadbhava participles as Sindhi, and a few of its own. The total number, however, is much smaller than in Sindhi. The commonest are

	P.P.	SKR.
करना "do,"	कीता	कृत (dialectically also कीदा).
जाणा "go,"	गिया, गरया	गत (also जाया = Skr. यात).
जाणना "know,"	जाता	ज्ञात.
देखणा "see,"	दिट्ठा	दृष्ट (also डिट्ठा more Sindhico).
देणा "give,"	दिता, दिया	दत्त.
लैणा "take,"	लीता, लिया	लभित, instead of classical लब्ध.
बरसणा "rain,"	बट्ठा	वृष्ट.
खाणा "eat,"	खाधा	खादित.
पेणा "fall,"	पिया	पतित, Sindhi id. through पर्खो.
बन्हणा "bind,"	बबा	बद्ध.
पछाणना "recognize,"	पक्षाता	परिज्ञात? H. पहिचानना.
सिडणा "sow,"	सीता	सेवित.
सौणा "sleep,"	सुता	सुप्त.

	P.P.	REL.
पहुँचना "arrive,"	पहुँतो, पुज्जो	?
रिंम्हणा "cook,"	रिह्या	रह.
विचहणा "marry,"	विचहतो	विवाहित.
कहिणा "say,"	किहा	कथित.
रहिणा "remain,"	रिहा	रहित.

In the two last the *ह* has leapt over into the preceding syllable, and *kihā, rihā*, are for *kahiā, rahiā*, respectively. The above list nearly, if not quite, exhausts the early Tadbhava participles of Panjabi, and Hindi influence is already at work in favour of the ordinary type.

§ 47. Gujarati has, like Panjabi, a smaller number of these participles than Sindhi.

INFIN.		REL.	PR.
करवुं "do"	कर्यो, कीधो	हत	करिओ
लेवुं "take"	लीधो	लब्ध	
पोहोचवुं "arrive"	पोहोच्यो, पोहोतो	?	
देखवुं "see"	दिठो, दीठो	दृष्ट	
बीहोवुं "fear"	बीहीनो, बीहीधो	भति	बिहिदो (§ 13)
खावुं "eat"	खाधो	खादित	
उपजवुं "produce"	उपनो *न्यो	उत्पन्न (present <i>utpadyate</i>)	
नीपजवुं "	नीपनो *न्यो	निष्पन्न (pres. <i>nishpadyate</i>)	
पीवुं "drink"	पीधो	पीत	
सुवुं "sleep"	सुतो	सुप्त	
मरवुं "die"	मृच्यो	मृत	
देवुं "give"	दीधो	दत्त	
बिणवुं "alt"	बेठो	उपविष्ट	
पेशवुं "enter"	पेठो	प्रविष्ट	
नामवुं "flee"	नाठो	नष्ट (present <i>nashtu</i>)	
जवुं "go"	गच्यो	गत	

In the instances of *kidho*, *bihidho*, *khādho*, *pidho*, and *didho*, we have probably formations based on the analogy of *idho*, for the exception of *bihidho*, which may owe its *dh* to a combination of the *h* and *d* of Pr. *sihido*, there is no older form which would yield *dh*. The origin of these forms will be more fully inquired into under Hindi, where they are well illustrated.

So far does the original meaning of these participles appear to have been obscured, that from them a participle ending in *elo* is also formed, and they say *kidhelo*, *dithelo*, and the like, where the participial element occurs twice. The ordinary verb having two forms of participle, one in *yo*, the other in *elo*, the verbs in the above list were bound to have them also, and instead of adding *elo* to the stem, and making *karelo*, *helo*, it has been added to the already formed early Tadbhava participle.

There appears to be a slight difference in meaning between the two forms of the Gujarati past participle, that in *elo* being somewhat more emphatic than that in *yo*. Thus **હું આવ્યો છું** "I am come," but **હું આવેલો છું** "I *am* come," (emphatically).

Marathi has early Tadbhava participles, and it has others, which are accounted irregular by the grammarians from other causes. The former are not numerous, and are chiefly found in the same stems as in the other languages. Thus we have—

जा "go,"	p.p.p. गेला
ये "come,"	" आला
मर "die,"	" मेल्ला
ले "take" (wear),	" ल्याला
कर "do,"	" केला

Stems ending in ण exhibit ट् in the participle, as

खण "dig,"	p.p.p. खट्ता
म्हण "speak,"	" म्हट्ता
हाण "slay,"	" हाट्ता

The explanation of these words is apparently to be found in a contraction of syllables; thus Skr. $\sqrt{\text{खन्}}$ "dig" forms regularly p.p.p. खात, but the ऋ being changed to ण in Prakrit, a p.p.p. खणित would be legitimately formed, whence खण्ट, to which, forgetful of the fact that this is already a participle, M. adds its own participial termination ता, and by rejection of the nasal arrives at खट्ता. So also $\sqrt{\text{मण्}}$, p.p.p. मणित, whence मण्ट and म्हट् + ता. Skr. हन् has p.p.p. हत, but a Pr. form हणित would be, and is, used, whence हण्ट, and the stem-vowel having been lengthened, हाट् + ता.

To a similar retention of the त of the Skr. p.p.p. may be attributed the following, though the etymology is in some cases very obscure:

छे "take,"	छेतता "taken."
धू "washed,"	धुतता "washed."
बघ "see,"	बघितता "seen."
माग "ask,"	मागितता "asked."
सांग "tell,"	सांगितता "told."
घाल "put,"	घातता "put."
खा "eat,"	खाता "eaten."

In § 15 it was shown that Pr. inserts त in forms like *ghettum*, *ghettuna*, which may be a retention of त in *grihita*. In the next four words on the list there seems to be a double participle, as in G. *kidhelo*, etc. The origin of घाल् is unknown to me, it looks like an early causal of छे take. In खा the p.p. is apparently a contraction of खादित्ता, Skr. खादित.

§ 48. Hindi has very few of these participles. In the classical language only the following are in use :

करना "do,"	किया "done."
मरना "die,"	मुखा "dead."
लेना "take,"	लिया "taken."
देना "give,"	दिया "given."
जाना "go,"	गया "gone."

All the other verbs in the language form this participle from the common stem used in all the other tenses, though in the mediæval poets some of the old Tadbhava participles are found, as *ditthau* "seen," *tutthau* "pleased," (*tukhta*) in Chand. The three verbs *kar*, *le*, and *de*, however, have several peculiar forms in Old-H., and in the mediæval poets, which are still heard in some of the rustic dialects. There are three parallel forms :

कर	has	i.	कीयी	or	कियी.	ii.	कीनी	or	कियी.	iii.	कीधी	or	कियी.
दे	"	i.	दीयी	or	दियी.	ii.	दीनी	or	दियी.	iii.	दीधी	or	दियी.
ले	"	i.	लीयी	or	लियी.	ii.	लीनी	or	लियी.	iii.	लीधी	or	लियी.

The curious thing about these three verbs is that every two of them have borrowed a form peculiar to the third. For *kīyan* is properly the participle of *kar*, Skr. कृत, Pr. कियो and कियो. It has been borrowed by *le* and *de*. So *dīyan* belongs to *de*, Skr. दत्त, Pa. and Pr. दियो, and has been borrowed by *kar* and *le*. Also *līyan* belongs to *le*, Skr. लब्ध, Pa. and Pr. लयो, and has been borrowed by *kar* and *de*. We cannot get *kīnan* or *kīlhan* phonetically from √ कृ, nor *dīyan* and *dīlhan* from √ दा, nor *līyan* and *līlhan* from √ लभ्, without forcing etymology. These three verbs are so constantly used together, and fall in so conveniently for rhymes in the poets, that it is not surprising that, in the general decay and confusion of forms out of which the modern languages sprung, they should have borrowed from one another. To begin with

our oldest author, Chand, कियो, लियो, and दियो, all occur frequently, with the first vowel both long and short, and the final vowel occasionally cut off if it happens to be in the way of the metre. कन्या कियो खंदोह ॥ "The girl *made* lamentation" (Pr. R. i. 171). It is long in

कीयो तब चित चिहीं दिस ॥

"He then *made* reflection on all sides."—xx. 20.

कीयो बजन की साज ॥

"He *made* preparation for going."—xx. 28.

Apocopated, as दीय and कीय in

गढ़ पतिक गढ़ भार दीय ॥

पूरव दिस तन गमन कीय ॥

"He *entrusted* the fort to the castellan,
Made a going to the eastern country."—xx. 29.

कीये सब बील बंब बजिय ॥

"Took all shouting and playing on drums."—ib.

A form with *a* occurs for *le* and *de* only, as लयी विप्र गुर बोल ॥ "Took Brahmins and gurus, saying" (ib. 20), and दई लु कन्या वचन घर ॥ "When the maiden gave her troth to the bridegroom" (ib. 22).

Commonest by far is the second form with either long or short vowel, in the latter case generally with doubling of the following consonant, and very frequently with the last vowel apocopated. Of these types that with the double consonant is nearest to the Prakrit, and thus presumably the oldest, the rejection of one consonant and lengthening of the preceding vowel is a later feature. In Chand, however, there is no distinction between the two; so that one rhymes with the other, as in

गैर महल प्रिचिराज सधी सबका रस दिन्नव ॥

कुसम पटा सिर पाग नाम खंडूप रस कीनव ॥

"In his private apartments Prithiraj dallied with his wives and attendants,

In saffron robes and turbaned head he made the sport of love."

—xx. 22.

So also कूटि धरतो निधि किन्नव "having plundered the land, he has taken treasure" (xxi. 89). In this passage the preceding line ends with किन्नव. (In Hindi *ar = an*, so *kinnav* is to be read *kinnan*, etc.)

विहसित वरं लगन जिनौ नरिंद ॥

"Smiling the king accepted the espousal."—xx. 23.

सहस्र घटु सिव उपर कीनौ ॥

तीन उपास भैम तब लीनौ ॥

"He poured (gave) a thousand jars over Siva,
Then he took a vow to fast three (days)."—i. 189.

See also the quotation at p. 268 of Vol. II.

Instances of the apocopated form occur chiefly at the end of a line; as

दस बीस जाय मुक्काम कीन ॥

बिच गाम नगर पुर कूट कीन ॥

"Having gone ten has he made a halt,
Villages and towns between he plundered."—i. 208.

परिमाण जुड़ पर इकम दीन ॥

"Parimal gave the order for fighting."—xxi. 5.

The third form is more frequently found with *de*, to which it least of all belongs, and has an additional termination *ya* sometimes attached to it, as

दान मान घन दिहिय

"He gave gifts and honours abundant."—i. 342.

In this passage it rhymes with लहिय, which ought perhaps to be read लिहिय "having taken."

There is an instance of the natural change into the palatal in

सगरी नाव आय बंध किञ्चिय ॥

आल्हा उदल उतरन न दिञ्चिय ॥

"Carts and boats he went and stopped;
Ālhā and Udāl he suffered not to alight."—xxi. 86.

for **किही** and **दिही** respectively. This latter occurs frequently, in a slightly altered shape—

वर दीही हुंदा नरिद ॥

"Dhundhā gave a blessing to the king."—i. 306.

प्रिथिराज ताहि दो देस दिह ॥

"Prithirāj gave him two provinces."—ib. 307.

All three types may be found repeatedly throughout the poem. In later times, as in Tulsī Dās and in Brāj poetry generally, these verbs take the forms **कीन्ही**, **कीन्ही**, and **दीन्ही**, and the last syllable is occasionally apocopated as in Chand. Thus Tulsī Dās—

एहि विधि दाह चिया सब कीन्ही ॥

विधिवत न्हार तिलावुनि दीन्ही ॥

"In this way he performed all the ceremony of cremation,
Having duly bathed, he presented the offering of sesamum,"

—Ay-k. 894.

मोहि उपदेस दीन्ह गुर नीका ॥

"The guru hath given me good advice."—ib. 928.

तौ कत कीन्ह संग कटकार ॥

"Then why has he taken an army with him?"—ib. 982.

The above examples may suffice for these special types, which have no analogy with other preterites in H. Oriya and Bengali have few such forms, for O. **मला** and **कला** are merely contractions of **मरिजा** and **करिजा**, from **मर** "die," and **कर** "do," respectively. From **जा** "go," O. **मला**, B. **मेला**, is about the only real old Tadbhava in these two languages.

§ 49. The participial tenses formed from the past participle are analogous to those from the present. In ordinary Hindi the participle itself is used as a past tense, without any relic of the substantive verb; it will have been noticed that in all the passages quoted in the last section, the participle must be translated as a preterite, and this is the case in the modern language,

both for active and neuter verbs, as *bola* "he said," *kiya* "he did." In the mediæval poets, however, and to this day in the rustic dialects of Oudh and the eastern Hindi area, there exists a preterite with terminations retaining traces of the incorporation of the old substantive verb. Before these terminations the long *a* and *i* of the p.p. masculine and feminine are shortened, and the vowel of the masculine is often replaced by *e*. Thus we have (*mār* "strike")—

SING.	1.	2.	3.	PL.	1.	2.	3.
m.	मारु	मारु	मारु	मारैन्हि	मारैन्हि	मारैन्हि	मारैन्हि
f.	मारिउ	मारिउ	मारिउ	मारिन्हि	मारिन्हि	मारिन्हि	मारिन्हि

Also in *m.* मारैउ, etc. In the sing. 2, 3, the syllable *सि* is often added, as मारैसि, and varied into *हि*, as मारैहि *m.* मारिसि, मारिहि *f.* Thus चलेउ हरषि हिय धरि रघुनाथा "he went rejoicing, holding in his heart Raghunātha" (Tulsi Das, Ram. Sand-k. 4), देखैउ नयन राम कर दूता "I have seen with my eyes the messenger of Ram" (*ib.* 12). Tulsi does not observe the gender very closely, if at all,—पुनि परीहरैउ सुखाने उ पर्णा ॥ "Again she gave up even dry leaves" (Bal-k. 155), पूछैसि लोगन काह उकाह ॥ "She asked the people, why is this rejoicing?" (Ay-k. 87). But the feminine is kept in प्रियवादिनि निष दीन्हिउ तोहि ॥ "The flatteress has given instruction to (has prompted) thee" (Ay-k. 101). The type ending in *सि*, though used for both 2 and 3 sing., more strictly belongs, I think, to 2 sing. from Skr. *asi*; but in this tense the traces of the substantive verb are so much abraded that it is difficult to speak with certainty about them. The following handful of instances, taken at hazard from one page of the Sundarā-kāṇḍa of Tulsi's work, will show the various senses in which this affix is used: खाइसि फल चरु बिटप उपारे "He eats the fruit, and tears up the bushes" (S-k. 40), कहु मारैसि कहु मईसि कहुक मिलायैसि धुरी ॥ "Some he slew, some he trampled under foot, some he caused to mix with the dust," कह जकेस कवन ते

कीसा । केहि के बन घालेसि बन खीसा । कीधौ खवण मुनेसि नहि मोहि । . . . मारेसि निशिचर केहि अवरधा । "Saith the lord of Lanka, who art thou, and what? By whose strength *hast thou* torn to pieces the forest, *hast thou* never heard of my fame, . . . for what fault *hast thou* killed the demons?" (*ib.*) Panjabi throws no light on the subject, as it does not use this form, but employs the participle simply as a tense, as *mat, tū, ah mārīā*, "I, thou, he, smote." Indeed, to such an extent in H. and P. has this custom of using the bare participle as a preterite tense prevailed, that it cannot now be used in any other sense, and if we wish to say "smitten," we must not use H. *mārā* or P. *mārīā* alone, but must add the participle of the modern substantive verb, and say H. *mārā hūā*, P. *mārīā hoīā*. The only trace in P. of the old substantive verb is to be found in a dialectic form which I have often heard, though it does not seem to be used in writing, as *कीतोस* "he did," which is probably to be referred to S. *इतोऽस्मि*. The grammarians, however, suppose that *kitos* is in some way a metathesis of *us ne kitta*, so that *kitā + us = kitos*. The instrumental, however, of *ah* "he," is not *us ne*, but *un*; *us ne* is Hindi, and would hardly have been resorted to in the formation of a pure dialectic type like this. Moreover, in the 1 plural we have such expressions as *खादेसा*, which is evidently *khānde + 'sā*, for *asā = asmāh*.

Different from modern, but strikingly similar to mediæval, Hindi in this respect is Sindhi, which does not employ the participle singly as a preterite, but, except in the 3 sing. and pl., has relics of the substantive verb incorporated with it, thus (*hat* "go")—

SING.	1.	2.	3.	PL. 1.	2.	3.
m.	हलिउसि	हलिअ	हलिओ	हलिआमीं	हलिअउ	हलिआ
f.	हलिअसि	हलिअ	हली	हलिउमीं	हलिउ	हलिउ

By comparing these terminations with those of the S. future,

which is based upon the present participle (§ 41), it will be seen that they are absolutely identical, thus :

halandu -si	corresponds to	haliu -si.
halandā -si	"	halia -si.
halandā -sī	"	haliā -sī.
halandīu -sī	"	haliū -sī.
etc.		etc.

and the terminations may, in the case of the preterite, therefore, as well as in that of the future, be referred to the old Skr. verb *as* in various degrees of decay.

Marathi exhibits the same analogy between the present and the preterite; to its p.p. in जा *m.*, जो *f.*, जे *n.*, etc., it adds the same terminations as to the present p. in जा *m.*, ती *f.*, ते *n.*, etc. Thus

Sing. 1.	सुटलो <i>m.</i>	सुटले <i>f.</i>	सुटलो <i>n.</i>
2.	सुटलास <i>m.</i>	•लोस <i>f.</i>	•लेस <i>n.</i>
3.	सुटला <i>m.</i>	•ली <i>f.</i>	•ले <i>n.</i>
Pl. 1.	सुटलो <i>m. f. n.</i>		
2.	सुटलां <i>id.</i>		
3.	सुटले <i>m.</i>	•ला <i>f.</i>	•ली <i>n.</i>

The forms exactly agree with those of the present, as will be seen by turning to § 42. There is no conditional as in the present. When it desires to use this form in an adjectival sense, *M.*, having apparently forgotten its originally participial nature, adds another एका, thus we get मेलेले जनावर "a dead animal," केलेला पुरुष "a made (*i.e.* experienced) man." The fact so well established for *S.* and *M.* may help us to understand, if we cannot fully explain, the preterites of *O.* and *B.*, which are formed in the same way. From a p.p. देखिज, *O.* constructs a preterite, thus—

Sing. 1.	देखिजि	2. देखिजु	3. देखिजा.
Pl. 1.	देखिजुं	2. देखिज	3. देखिजे.

where the terminations correspond exactly with those of the conditional, which is similarly formed from the present participle.

Bengali does the same (*pace* the Pandits), as—

Sing. 1.	देखिनु	2 देखिनि	3 देखिब.
Pl. 1.	देखिबाम	2 देखिबा	3 देखिबेन.

Here the 3 sing. has also देखिबे with a final क, as in the imperative and future, concerning which see § 53. The 1 sing. in *nu* is frequently heard in speaking, and is very common in the old poets, as अपहृष देखिनु रामा "I *saw* the fair one looking woo-begone" (Bidyapati, vii. 1), where some read देखिनु.

In Gujarati the participle is used alone as a preterite in both forms, that in *yo* and that in *elo*, but more frequently a modern substantive verb is added for greater clearness. This language has no traces of the old incorporated Sanskrit *as*.

§ 50. In the past tenses of all but B. and O. the *prayogas* or constructions mentioned in Vol. II. p. 264, are employed. In most of the languages, indeed, their use is restricted to the past tenses. The direct or *kartā prayoga* is used with neuter verbs, and requires the subject to be in the nominative case, while the participle, which does duty for a preterite, changes with the gender of the speaker. Thus

H. वह बोला "he spoke,"	वे बोले "those men spoke."
वह बोली "she spoke,"	वे बोली "those women spoke."

So, also, in P. S. and G. In M. the principle is the same, though there is more variety of forms:

तो म्हटला "he said,"	ते म्हटले "illi dixerunt,"
ती म्हटली "she said,"	व्या म्हटल्या "ille dixerunt."
ते म्हटले "it said,"	ती म्हटली "illa dixerunt."

And so through all the persons except 1 and 2 plural, where no

distinction of gender is necessary, as the speaker is known. In the active verb, however, the *karma* or objective construction is used, where the subject is put in the instrumental, the verb agreeing in number and gender with the object. Thus, II. मैं ने तुम से बड़े कटोर वचन कहे हैं "I have spoken very harsh words to you" (Sak. 33). Here the subject *mai ne* is in the instrumental, the verb *kahe hai* is masc. plural, to agree with the object *vacan*. देव ने वैसा ही योग मिला दिया (ib. 39) "Destiny has joined just such a joining" (has brought about such a marriage).

So also in M. the p.p. is declined for all three genders in both numbers so as to agree with the object, as खाने पोथी वाचिनी "he read the book," where *vāchitā* is fem. sing., to agree with *pothi*. In M. and S. many verbs are both active and neuter, in which case the preterite has a double construction, direct or *kartā* when the verb is used as a neuter, objective or *karma* when it is used as an active. So also in G. The distinction appertains to syntax, and not to form, and need not be more than mentioned here.

There is also a third or impersonal construction technically known as *bhāva*, in which the object is not expressed, and the verb, therefore, remains always in the neuter. In M., however, this construction is used even when the object is expressed, as खाने खाना मारिने "he beat him," literally "by him to him beaten."

§ 51. The participle of the future passive, which in Sanskrit ends in *तव्य*, plays an important part in the modern verb in some languages. It does not, like the two previously noticed participles, form modern participles, but rather various kinds of verbal nouns, such as in Latin grammar we are familiar with under the names of gerunds and supines, also the infinitive. The Latin gerund itself is, however, closely allied to the participle of the future passive, for *amandi*, *amando*, *amandum*, are

respectively the genitive, dative, and accusative of *amandus*. There is, therefore, a participial nature inherent in these forms which justifies their inclusion in the present chapter. The Skr. *taṃya* becomes in Pr. *darya*, and with elision of the *d*, *area*. Thus Skr. बोधितव्य, Pr. बोधिदन्न, बोधिचन्न. So also Pr. करिदन्न, करिचन्न, which must be referred to a Sanskrit form करितव्य rather than to the classical form कर्त्तव्य, for Prakrit, as mentioned before, generally takes no heed of Sanskrit subtleties about inserting or omitting the intermediate *र*, but treats all verbs alike, as if that letter were inserted, and it naturally gives the type to its modern descendants in all cases.

The treatment of the form so inherited from the Prakrit differs in the various languages, both in form and meaning.

Sindhi uses it as a present passive participle ending in *ibō*, Pr. करिचन्नो, losing the *a* and the first *r* of the suffix, becomes करिबो, meaning "being done." The transition from the original sense of "that which is to be (or must be) done," into "that which is being done," is simple and natural. Examples are—

बुसाटणु "to choke,"	बुसाटिबो "being choked."
डोइणु "to cheat,"	डोहिबो "being cheated."
झलणु "to seize."	झलिबो "being seized."

Gujarati differs from Sindhi in rejecting the *र* and retaining the *च*, thus making करवो "being done," as छोडवो *as*, बी./, बु *as*, etc., "being loosed;" लाववो, however, means "bringing," where the sense has become active. The neuter of this form does duty as an infinitive, as जवु "to go," of which more hereafter.

In Marathi the vowel preceding the *र* is lengthened, and one *r* rejected, giving a form करावि, which is the same for active and neuter verbs. The meaning, to judge by the

examples quoted, has also changed, for although properly the same as in the older languages, "that which has to be done," it is used in constructions where it implies "the doing" of a thing only. It takes all three genders, and is commonly used also in the genitive and dative cases **करावयाचें** and **करावयास**, or **कराव्यास**. Thus **ते मी करावयास सिद्ध आहे** "I am ready to do that" (i.e. "to the doing of"), **आपणासी काही बोलावयाचें आहे** "I have something to say to you," i.e. "with you something of that which must be said I am." Thus it approximates somewhat to the infinitive of G., as in the following passage:

न करावा संन । वाटे दुरावाचें जग ॥

सेवावा एकांत । वाटे न बोलावी मात ॥

जन धन तन । वाटे लेखाचें वसन ॥

"It is proper not to associate, to be separated from the world;
It is proper to preserve solitude, not to speak at all;
People, wealth, self it is proper to consider as vomit."

—Takarām. Abh. 1885.

Here *edte* (Skr. **वर्त्तते**) means "it seems," i.e. "it seems proper," like Latin *deceet*, *oportet*, *licet*, used impersonally, and the participle agrees with the object. Thus *sanya* and *ekānta* being masc., the participles are masc. *karāva* and *seveda*; *māt* (Skr. **माता**) being fem., *bolāva* is fem. also; *jag*, *rajan* neut., hence *durādāra*, *lekha* neut. The original meaning of a passive participle may be exhibited by supposing the sentence to be "society is not to be made . . . this seems proper," which is easily inverted into the rendering given above.

When used in the genitive or dative case, the **व** sometimes drops out, and they say, for instance, **आम्हास देशांतरी जायाचें पडेल** "We shall have to go to another country," for **जाव्या**, literally "to us in another country of going it will fall." Latin would here use the corresponding passive participle, *Nobis eundum erit*, or Skr. *gantavyam asti*.

Panjabi has apparently no trace left of this participle, nor

has classical Hindi, but in rustic Hindi, especially in the eastern parts of its area, as well as in Bengali and Oriya, this participle exists. In Bhojpuri it ends in वे or वै, without any junction-vowel, and means the doing of anything, as मुनवे न कसन *munbe na kaisan*, "they did not make a hearing," i.e. "they would not listen," मानवे न करिहैं *manbe na karihai*, "they will not make an obeying," i.e. "they will not obey."¹ It is more emphatic than a simple preterite or future, and implies that the persons referred to obstinately refused to hear or obey.

In B. and O. it is a simple infinitive, but as a noun is declined in all cases, thus B. O. देखिवा "to see," genitive देखिवार "of seeing," etc. As a noun, it also implies the act of doing anything, as O. भण्ड गीत गुनिवा दोष चटे गारवा त पाप "the hearing of, or listening to, obscene songs, is a fault, the singing (of them) is a crime" (see § 74).

§ 52. The tenses formed from this participle come next to be considered. In Sindhi the old substantive verb is incorporated, just as in the tenses derived from the present and past participles, but it is used to form a future passive from active verbs only, as (*chhad* "abandon"), "I shall be abandoned," etc.

Sing. m. 1.	छड़िगुसि	2. छड़िवें	3. छड़िबो
f. 1.	छड़िविससि	2. छड़िविचं	3. छड़िबो
Pl. m. 1.	छड़िबासी	2. छड़िवउ	3. छड़िवा
f. 1.	छड़िविजंसी	2. छड़िविऊ	3. छड़िविऊ

Here the terminations are precisely identical in every respect with those of the active future and preterite, exhibited in the preceding sections.

In Gujarati this participle used alone, and inflected for

¹ Kellogg, Grammar, p. 231.

gender, constitutes what the grammar-writers are pleased to call the second present of the second potential mood. It is, however, really a construction of the objective, or *karma*, kind, in which the verb agrees with its object, and the subject or agent is in the instrumental or (as usual in G. in this construction) in the dative; thus they say **मारे** or **मैं छोड़वो** "I ought to release," i.e. "by me it is to be released," **तोरे** or **ते विश्वास करवो** "you ought to have confidence," i.e. "by thee trust is to be made," Skr. **त्वया विश्वासः कर्तव्यः**.

The genitive case also, oddly enough, forms a tense of its own, also with no trace of the old substantive verb, as **छोड़वानो** *m.*, **शी** *f.*, **शुं** *n.* The meaning seems hardly, if at all, distinguishable from that of the nominative, and the construction is objective, as in that tense; thus **जे काम हमारे करवानुं** "the work which we ought to do." I am not altogether satisfied, however, with the explanation of this tense as the genitive of the above participle, and would suggest that it may possibly be derived from the *Ātmane. pres. part.* in *vidna*, like *bhavamāna*. It is possible, I think, that though the *Ātmanepada* has dropped out of use at an early epoch, yet that this participle, not being specially recognized as belonging to that phase of the verb, may, in some dialects, have held its own. From the want of documents of the intermediate period, however, the question is one which must remain, for the present at least, obscure.

Marathi combines the terminations used by it in the indicative present and past, with this participle also, but, from a memory of its origin, employs the tense so formed somewhat in the same way as G., namely, as indicating that a thing ought to be or should be done. From this strict and primary sense other subsidiary meanings branch out, as might be expected. The neuter verb uses the direct or *kartā* construction, also the *bhāva* or impersonal; the active uses the *karma* and *bhāva*. As it is only in the direct construction that the verb is conjugated

for person, it is only in the neuter verb that the verbal terminations occur. Thus (*sut* "escape")—

Sing. m. 1.	मुतावा	2. *वास	3. *वा	Pl. 1. *वे	2. *वेत	3. *वे
f.	मुटावी	*वीस	*वी	*व्या	*व्यात	*व्या
n.	मुटावे	*वेस	*वे	*वी	*वीत	*वी

The 2. plural here differs from the other tenses in preserving a separate form for all three genders, in which the final *t* recalls the termination of the 2. plural of the Sanskrit optative.

In the active verb with the *karma* construction, the participle is declined for all three genders of both numbers, but in the nominative case only, and the agent is in the instrumental, thus म्यां, तू or त्वाने सोडावा -वी -वे, etc., "I, thou, he, should loose." In both neuter and active, when the *bhāva* construction is used, the verb stands in the neuter singular with all persons, as मुटावे or सोडावे.

Stevenson (p. 101) distinguishes no less than fourteen different senses of this tense, but the distinctions seem somewhat too finely drawn, and belong rather to the department of conventional usage than to that which deals with the organism and structure of the language.

With a short *a* preceding the characteristic *व*, which is all that remains of the participial ending, M. forms a whole potential mood, which may even be looked upon as a separate phase of the verb. Thus (*sod* "loose")—

Aorist (Past habitual)	मला सोडवे	"I used to be able to loose" (rare),
Present	.. सोडवते	"I can loose,"
Preterite	.. सोडवले	"I could loose" (rare),
Future	.. सोडवेन	"I shall be able to loose,"
Imperfect	.. सोडवत होते	"I could have loosed,"
Pluperfect	.. सोडवले होते	"I had been able to have loosed,"

and so on, through all the range of compound tenses. The construction is the *Bhāva* or impersonal throughout, showing that the form originates from the participle, and is to be literally rendered "by me to be loosed it is, or was," which accounts for the neuter form being used.

§ 53. It is to this place that I would now refer the *ba* type of the future as used in B. and O., and in the Bhojpuri dialect of Hindi. It has been usual to compare these tenses with the Latin future in *bo*, as *amabo*, and the comparison is tempting, but, as I now think, delusive. It rests upon the supposition that the *b* of the termination represents the substantive verb *bhū*; but to this there are the seemingly fatal objections that *bhū*, in its modified form of *bhava*, had from very early times become *ho*, losing its labial element altogether, and that the present tense *bhavadāi*, etc., though much changed and worn away in modern times, always retains its characteristic vowel *o*, sometimes shortened to *u* or resolved into *ua*. It is only when an *i* follows the *o*, that the combination *oi* is at times shortened to *e*, as in O. *hebd* = *hoibā*.

Judging by the analogy of the cognate languages, it seems that we ought now to see in the B. and O. future the Skr. participle in *taṇya*, in combination with the present tense of *√as*. The forms are (*dekh*, "see")—

B.	Sing.	1. देखिब	2. देखिबि	3. देखिबे •बेक्
O.	"	1. देखिबि	2. देखिबु	3. देखिब
Bhojpuri.	"	1. देखब	2. देखब	3. देखी
B.	Pl.	1. देखिब	2. देखिबा •बे	3. देखिबेन
O.	"	1. देखिबु •बा	2. देखिब	3. देखिबे
Bhojpuri.	"	1. देखब	2. देखब	3. देखिहो

The 3 sing. and 3 pl. of Bhojpuri may be excluded from this

group, as they belong to the *as* or *hs* type of the future (§ 35). The dialect of Riwā has some forms of the *ba* type, as 2 sing. मारिबेस, 1 pl. मारिब, मारब, and मारिबे, 2 pl. मारिबा. The dialect of Oudh (Avadhi) has 1 sing. मारबू, 2 मारबेस, मारबे, 1 pl. मारब, 2 मारबो, and in the old Purbi dialect मारब *mārab* is used for all three persons of both numbers.

There is thus apparent a general tendency to the use of the *ba* type of future throughout the eastern area of the Aryan territory in India, and it will be seen by comparing either B. or O. terminations of the future with those of the tenses formed by those languages from the present and past participles respectively, that they are almost, if not quite identical. Thus O.—

	PRESENT.	PAST.	FUTURE.
Sing.	1. dekhant -i	dekhil -i	dekhīb -i
	2. dekhant -u	dekhil -u	dekhīb -u
	3. dekhant -ā	dekhil -ā	dekhīb -ā
Pl.	1. dekhant -ā	dekhil -ā	dekhīb -ā
	2. dekhant -a	dekhil -a	dekhīb -a
	3. dekhant -e	dekhil -e	dekhīb -e

As the analogy of the other languages compels us to see in these terminations abraded fragments of the present tense of *as*, when combined with the present and past participles, the same process of reasoning leads us to see the same element in combination with the future participle, and the 2 sing. of the Riwā and Avadhi dialects further confirms this view by having preserved, like Marathi, the characteristic *s* of the Skr. 2 sing. *asī*. There is the same agreement of the final vowel in these three tenses of the B. verb, though it is not so accurately preserved as in the more archaic Oriya. Thus B. *dekhīb-a* does not correspond with *dekhīt-dm*, and *dekhil-am*. So, also, B. *dekhīt-ī* differs from *dekhīb-i* and *dekhīb-i*. There is, however, sufficient general similarity, and the differences consist

mostly in this, that one tense has preserved a more archaic form than the other, thus *dekhidām* preserves Skr. *asmī*, Pr. *amhi*, better than *dekhiba*, *dekhitis* preserves the *s* of *asi*, while *dekhiti* and *dekhibi* have rejected it. Thus, while the abrasion of the substantive verb has been carried to so great a pitch in these two languages as almost to obliterate all traces of it, yet, from the general analogy of cognate forms, there is little doubt that we have in the *ba* future the Skr. participle in *tarya*. The final *k* in the 3 sing. of B. is a phenomenon for which I have in vain sought an explanation; the most probable one is, I think, that which considers it merely as a *tag*, or meaningless addition, but why a tag should have been added to this person merely, and not to others also, remains to be explained.

§ 54. The two remaining types of the future may appropriately be introduced here. They are certainly participial tenses, though not participial in the same sense or on the same plan as the other tenses discussed in this chapter; they are, in fact, exactly the reverse. Whereas, in the other participial tenses, it is the modern stem which is the participle, and the ancient verbal additions are a present tense, in the two types of future, which we shall now examine, the modern stem is a present tense, and the ancient verbal addition is a participle.

The first of the two is the *ga* type. This consists in adding H. sing. *गा* *m.*, *गी* *f.*, pl. *गे* *m.*, *गी* *f.*, to the aorist, and the same in P. except the pl. *f.*, which is *गीची*. In the pl. *f.* H. also ordinarily drops the anuswāra. This type is only found in H. and P. The tense runs thus (*sun* "hear"), "I will hear," etc.

H. Sing.	1. सुनूंगा	2. सुनेगा	3. सुनेगा
„ Pl.	1. सुनेगे	2. सुनेगे	3. सुनेगे
P. Sing.	1. सुणाया	2. सुणेंगा	3. सुणेंगा
„ Pl.	1. सुणामि	2. सुणामि	3. सुणामि

If the reader will compare this example with that of the aorist in § 33, it will be at once apparent that this tense is formed by adding the syllables *gā*, *gi*, etc., to that tense. Among the Mahomedans of Delhi and other large cities, this form is used even as a present, and one frequently hears such a word as *haigā*, for *hai* "it is." There can be little doubt that this *gā* is the Skr. p.p. गत. Pr. गदो, गद्यो, गद्यो. In H., as mentioned in § 48, the p.p. of *jānā* "to go," is *gayā m.*, and this in the mediæval poets is often shortened to *gā*. The *f.* is गई *gat*, which easily becomes गी, so also pl. *m.* गए becomes गे. The meaning of the tense is thus, "I have gone (that) I may do," a construction which recalls our English idiom "I am going to do," and French "je vais faire." The participial nature of the affix is shown by its being inflected for gender and number in concord with the agent.

This type seems to be of late origin. It is not much, if at all, known or used by the early writers, who, except when they use the future of the *ba* type, generally express a future sense by the aorist only. As this method grew by degrees to be felt insufficient, the participle was added to give greater distinctness.

§ 55. The second type is that which has *i* for its characteristic. Among the classical dialects Marathi only employs this form, and there has been much speculation about the Marathi future by those who only looked to the language itself. It had, however, long been known that a future with this type existed in the Marwari dialect, belonging to the Hindi area, and spoken over a large extent of country in Western Rajputana. The able researches of Kellogg have recently placed us in possession of two more instances of a future of this type spoken in Nepal and by the mountaineers of Garhwal, and Kumaon in the Himalayas, who are by origin Rajputs from the

plains. Thus, the Marathi future now no longer stands alone, and we are in a position to compare the whole group of futures of the *la* type (*par* "fall," *mār* "strike," *ho* "be," *suṭ*, *suṭ*).

SINGULAR.

Marwāri.	1. पड़लो	2. पड़ेलो	3. पड़ेलो
Garhwāli.	1. मारलो	2. मारिल्लो	3. मारलो
Kumaoni.	1. मारुलो	2. मारेलो	3. मारलो
Nepali.	1. झला	2. होलास	3. होला
Marāṭhī.	neuter. 1. सुटेन	2. सुटसीन	3. सुटेन
	active. 1. सोडीन	2. सोडिसीन	3. सोडीन

PLURAL.

Marwāri.	1. पडांला	2. पडोला	3. पडैला
Garhwāli.	1. मारला	2. मारिल्ला	3. मारला
Kumaoni.	1. मारुला	2. मारला	3. मारला
Nepali.	1. झैला	2. होला	3. जनन
Marāṭhī.	neuter. 1. सुट्टे	2. सुटान	3. सुटतीन
	active. 1. सोडूं	2. सोडाल	3. सोडितीन

In these dialects the aorist has had added to it a form लो sing. and ला pl., which does not appear to be inflected for gender, but has only sing. and pl. masc. So far as it goes, however, it directly corresponds to H. and P. *gā*, *ge*, etc., and like them points to a participial origin. In Marathi the inflectional terminations have been dropped, and in some cases even the *la* itself. The 1 sing. of the neuter aorist is सुटे, and adding न to this, we get सुटेन, which, being difficult to pronounce, has glided into सुटेन. In the 1 pl., however, the न has simply been rejected, so that it is the same as the aorist. In the 2 sing. the aorist has सुटस, but, as has already been shown, this is a contraction from सुटसि, and सुटसि + न =

सुटसीज, from the Marathi habit of lengthening the vowel of a final syllable. In the 2 pl. aorist **सुटो**, the **ज** has neither been fused with the anuswāra into **ञ**, as in the 1 sing., nor has it altogether dropped out, as in the 1 pl.; but there is no trace of the anuswāra; the reason of this is that the anuswāra in this person is not organic; the older language has simply *s*, as **सुटा**, and it is to this that the **ज** has been added, and not to the modern form. The third person singular and plural is still simpler; nor, **सुटे** + **ज** = **सुटेज**, and (archaic) **सुटती** + **ज** = **सुटतीज**. The same process is followed by the active verb exactly.

I look upon this **ज** as the shortened form of a sing. **जो** *m.*, **जी** *f.*, pl. **जा** *m.*, **जी** *f.*, of which the feminine is apparently not in use, and I derive it from Skr. √**जग्**, p.p.p. **जग्**, Pr. **जग्गो**, of which the *gg* has been reduced to *g* according to ordinary practice, and the single *g* has then dropped out, leaving **जघो**, shortened into **जो**. This derivation is confirmed by the fact that in all the languages this verb is used in the sense of beginning to do any thing, as in H. **बनें जगा**, "he began to do." In M. especially it is used in a very wide range of applications, and **सुटेज** appropriately means "he begins (that) he may do," in other words "he is about to do," "he will do."

§ 56. I give here, for convenience of comparison, a tabular view

I.—PRESENT PAR-

Sanskrit पचन् *m.*, पचन्ती *f.*, पचत् *n.*

	HINDI.	PANJABI.	HINDUI.	
Participle.	देखता *ती	1. जांदा *दी *दे *दीया	<i>Neutral.</i> हलंदो *दी	<i>Active.</i> भरींदो *दी
(a) <i>declinable.</i>	*ते *ती	2. मारदा *दी, etc.	*दा *दिउ	*दा *दिउ
(b) <i>indeclinable.</i>	देखत देखत	"	"	"
Present (Future, etc.) Tense.	S. 1.	देखता *ती मारदा *दी	हलंदुसि *दिअसि	भरींदुसि, etc.
	2.		हलंदे *दिअ	भरींदे *दिअ
	3.		हलंदो *दी	भरींदो *दी
	Pl. 1.	देखते *ती मारदे *दीया	हलंदासी *धूसी	भरींदासी, etc.
	2.		हलंदउ *वूं	भरींदउ *वूं
	3.		हलंदा *धूं	भरींदा *धूं

¹ On account of the multiplicity of forms in Marathi, the masculines

of the participles and the participial tenses derived from them.

TICIPLE ACTIVE.

Prakrit पचंतो *m.*, °ती *f.*, °तं *n.*

GUJARATI.	MARATHI.		ORIYA.	BASDAI.
	<i>Neuter.</i>	<i>Active.</i>		
झोडतो °ती °तुं	मुटता °ती °तें	सोडिता °ती °तें		
°ता °ती °तां	°ते °व्या °तीं	°ते °व्या °तीं	"	"
झोडतां °ते	मुटत °तां °तांना	सोडित °तां °तांना	देखु °णु	देखिते
} झोडतो °ती °तुं	मुटतो°	सोडितो°	देखति	देखिताम
	मुटतोस मुटतास	सोडितोस सोडितास	देखंतु	देखितिस
	मुटतो मुटता	सोडितो सोडिता	देखंता	देखित
} झोडता °ती °तां	मुटतो°	सोडितो°	देखंतु	देखिताम
	मुटतां	सोडितां	देखत	देखिता
	मुटतात मुटते	सोडितात सोडिते	देखते	देखितेन

only of the indicative and conditional are given in this table.

II.—PAST PARTICIPLE PASSIVE.

Sanskrit कृतम् *m*, कृता *s*, कृतं *n*. Prakrit किरिओ *m*, कुरो *s*, किरिअं *n*.

	HINDI.	PANJABI.	GUJARATI.	MAHARATHI.	ORIYA.	BAROAZI.
Participle.	मारा ०री ०रे ०री	मारिआ ०री ०रे ०रीणा	हली ०की ०या ०यू	खोइयो ०डो ०यू ०ड्या ०डो ०ड्या and खोइलो, etc.	सुटला ०ली ०ले ०ले ०व्या ०की	देखिल देखिल
5. 1.	मारा ०री	मारिआ ०रे	हलिउसि ०सि हलिअ ०रअ हली ०रे	खोइयो ०डो ०यू खोइलो ०की ०यू	देखिलि ०ली ०ले सुटलास ०लीस ०लेस सुटला ०ली ०ले	देखिलि देखिनु
2.						देखिलि देखिनु
3.						देखिला देखिल
Pl. 1.	मारि ०री	मारि ०रेणा	हलिआसी, etc. हलिअउ ०यू हलिआ ०यू	खोइया ०डो ०ड्या खोइला ०ली ०ला	देखिनु देखिलि ०व्याली सुटले ०व्या ०की	देखिलाम
2.						देखिला
3.						देखिले

III.—FUTURE PARTICIPLE PASSIVE.

Sanskrit बोधितव्यस् *m.*, *०*या *f.*, *०*व्यं *n.* Prakrit बोधिद्व, बोधिखव्व.

	INDL.	SEINDL.	GUJARATI.	MAHAR.	ODIA.	RAJASTH.
Participle (Infinitive, etc.).	सुनये मानये	एडवो ०वो ०वा ०खू	खोडवो ०वो ०वु ०वा ०वी ०वी	सुटावा ०वी ०व ०वे ०व्या ०वी	देखिवा	देखिवा
S. 1. देखव्	(Rajputi.) देखव्	खडिबुसि ¹		सुटावा ²	देखिवि	देखिव
2. देखव	देखव	खडिबे		सुटावास	देखिवु	देखिवि
3. देखव	<i>deest</i>	खडिवो	खोडवो, etc.	सुटावा	देखिव	देखिवे ०वक्
Pl. 1. देखव	देखव	खडिबामी	खोडवानो. etc.	सुटावे	देखिवु ०वा	देखिव ०वे
2. देखव	देखव	खडिबच		सुटवे त	देखिव	देखिवा ०वे
3. देखव	<i>deest</i>	खडिबा		सुटावे	देखिवे	देखिवैन

¹ See other dialectic forms in § 53.

² Only the manuscript is given from want of space.

§ 57. The only participial tenses in the Gipsy verb are those formed from the past participle. This participle is sometimes regularly formed from the modern verbal root, and sometimes, as in the other languages, is an early Tadbhava, perpetuating the type of the Prakrit participle.

There are, as in the other languages, three types of this participle ending in (1) *to* or *do*, (2) *lo*, (3) *no*. Examples of the first type are—

<i>andra</i> "to carry,"	ando,	Skr. ānī,	p.p.p. ānīta, S. āndo.
<i>jivāca</i> "to live,"	jivdo,	„ jiv,	„ jivita.
<i>kerdea</i> "to do,"	kerdo,	„ kṛi,	„ kṛita, Pers. karda.
<i>nashāca</i> "to depart,"	nashito,	„ naç,	„ nashṭa.
<i>chindea</i> "to cut,"	chindo,	„ chhid,	„ chhinna.

Of the second type—

<i>arāca</i> "to come,"	alo,	„ āyā,	„ Ayāta, M. ālā, B. O. ālla.
<i>jāca</i> "to go,"	gelo,	„ yā,	„ yāta, M. gelā, B. gela, O. gallā.
<i>dikāca</i> "to see,"	diklo,		B. dekhilā, O. dekhilā.

Of the third type—

<i>dāca</i> "to give,"	dino,	„ dā,	„ datta, Pr. dīppo, O.- H. dīnā, dīnā.
<i>lāca</i> "to take,"	lino,	„ labh,	„ labdha, O.-H. līnā, līnā.
<i>roedra</i> "to weep,"	rovno,	„ rud,	„ rudita, Pr. ruṇṇo, S. runo.
<i>uryāca</i> "to fly,"	uryano,	„ uddī,	„ uddīna, S. udāṇo.

The Aorist is formed by adding the terminations of the old substantive verb, thus from *lino* "taken"—

Sing.	1. līnom,	2. līnān,	3. līnās,
Pl.	1. līnān,	2. līnān,	3. līnās "I took," etc.

So from *kerdo* "done," comes

- Sing. 1. *kedom*, 2. *kerdân*, 3. *kerdâs*,
Pl. 1. *kerdâm*, 2. *kerdân*, 3. *kerdâs* "I did," etc.

And from *muklo* "abandoned" (Skr. *mukta*)—

- Sing. 1. *muklom*, 2. *muklân*, 3. *muklâs*,
Pl. 1. *muklâm*, 2. *muklân*, 3. *muklâs* "I left," etc.

This proceeding is strictly analogous in principle to the method employed in Sindhi, to which, of all the Indian languages, that of the Gipsies bears the closest relation.

The future is formed by prefixing to the present tense the word *kâma*, Skr. *kâm* "desire," and thus means "I wish to do," etc. Thus *kerâva* "I do," *kamakerâva* "I will do," i.e. "I wish to do." The prefixed word does not vary for number or person. This method of forming the future is, as Paspatis (p. 101) points out, borrowed from modern Greek, in which *θέλω* contracted to *θέ* and *θα*, is used in this way, as *θα ὑπάγω* "I will go." There is nothing strictly analogous to this method in our seven languages, though the futures of the *ga* and *la* types are formed on a not very dissimilar principle.

CHAPTER IV.

THE COMPOUND TENSES.

CONTENTS.—§ 58. DEFINITION OF THE COMPOUND TENSES AND AUXILIARY VERBS.—§ 59. THE ROOT *AS*, PRESENT TENSE.—§ 60. IMPERFECT IN PARIANI AND GIDAY.—§ 61. *AS* WITH A NEGATIVE.—§ 62. COMPOUND TENSES FORMED WITH *AS*.—§ 63. THE ROOT *ACHH*; DISCUSSION AS TO ITS ORIGIN.—§ 64. TENSES DERIVED THEREFROM.—§ 65. COMPOUND TENSES FORMED THEREWITH.—§ 66. *SHU*;—THE SIMPLE TENSES.—§ 67. *id.*;—THE PARTICIPIAL TENSES.—§ 68. COMPOUND TENSES FORMED THEREWITH.—§ 69. *STH*.—§ 70. *VA*.—§ 71. ANCILLARY VERBS DERIVED.—§ 72. EXAMPLES OF ANCILLARIES.

§ 58. FURTHER removed from the old synthetical type than either of the preceding classes of tenses is that class which now comes under discussion. It is by means of this class that the seven modern languages, after having rejected the numerous and complicated formations of the Sanskrit verb, have secured for themselves the machinery necessary for the expression of very delicate shades of meaning. So numerous, indeed, are these shades of meaning, and so fine are the distinctions between them, that it is very difficult for a foreigner to catch them.

The tenses in question are constructed by adding to the participles already mentioned various tenses of certain auxiliary verbs, and in a few instances by adding these auxiliaries to the simple present, or aorist. The auxiliaries themselves are modern formations capable of being used alone, and are traceable to well-known Sanskrit roots through processes partly Prakritic and partly post-Prakritic. Pali and the Prakrits carry the verbs in question through certain grades of change,

and the modern languages either preserve the Prakrit form unchanged, or subject it to further changes of their own, such changes being often governed by laws unknown to the Prakrit stage of development.

The roots so employed are √ अस्, √ भू, √ खा, √ या, and another, whose origin is somewhat obscure in Sanskrit, but which appears in Prakrit under the form अच्च्. It will be necessary first to examine each of these roots and draw out the modern forms to be affiliated to each, after which the tenses formed by them may be arranged in order.

§ 59. 48. This root means "to be," and is the simple copula like Latin *esse* (see under *sthd* in § 12). Only the present tense can be clearly traced in the modern languages, though there are some detached fragments here and there which may possibly represent other tenses. These will be noted further on. In Sanskrit the root belongs to the second or *ad* conjugation, in which the terminations are added direct to the root, thus giving rise to various euphonic changes in accordance with the laws of Sandhi. Pali and the scenic Prakrits, in contradiction to their usual practice of employing the *bhū* type for all roots, retain in this verb the *ad* type. Omitting the dual, the tense runs—

Skr.	Sing.	1. asmi,	2. asi,	3. asti.
"	Pl.	1. smaṇ,	2. stha,	3. santi.
Pa. and Pr.	{	Sing. 1. asmi,	2. asi,	3. atthi.
		amhi.		
"	{	Pl. 1. asma,	2. attha,	3. santi.
		amha.		

In Prakrit the initial vowel is often elided as *'mhi*, *'mha*. These forms, however, belong to the scenic Prakrit, which, as Pischel has shown, is really almost as artificial a language as Sanskrit, and on comparing the corresponding tense in the modern languages, it seems difficult, if not impossible, to derive it from the scenic forms. We are not justified in assuming

that the modern tense was derived, according to different phonetic laws, from those which have guided and effected the transformations of other words in these languages. On the contrary, in the absence of a continuous chain of documents exhibiting the gradual changes that have taken place, we have nothing to guide us but the general principles of phonetic evolution, which we have been able to formulate for ourselves from undoubted instances. We have numerous well-established cases in which the Prakrit, followed by the moderns, has conjugated a verb according to the *bhū* type, though in classical Sanskrit it follows some other conjugation; indeed, it may, I think, be considered as proved that the forms of the *bhū* conjugation have swallowed up all other conjugational types, just as much as those of the *as* stem in nouns have driven out all other declensional forms. In this view there would be strong reasons for postulating the existence of a present tense of √अस् conjugated after the *bhū* type, thus—

Sing. 1. asāmi,	2. asasi,	3. asati.
Pl. 1. asāma,	2. asatha,	3. asanti.

It is only from such a form as this, the existence of which, though I am not aware of any text in which it is found, may fairly be inferred from analogy, that the modern forms can, in accordance with the ordinary laws of development, be derived.

Beginning with Sindhi as the most archaic, or nearly so, this tense runs thus—

Sing. 1. चाहियां.	2. चाहि, चाही.	3. आहे.
Pl. 1. चाहियूं.	2. चाहियो.	3. चाहिनि.

Now, barring the troublesome superfluity of *anunāsikas* which the Sindhians have seen fit to bestow on this aorist, the forms are strikingly similar to those of the Sanskrit tense postulated above. The 3 sing. *dhe* is contracted from *ahai*, which, again, is good Prakrit for *asati*, but it could hardly be deduced from *asti*, which, as we have seen, naturally results in

Prakrit atthi. The terminations of the other persons agree with those of the aorist of the active verb given in § 33, and those are obviously and admittedly derived from the terminations of the *bhā* type. I am unable to account for the peculiarity of this tense using the forms of the active verb, where we should naturally have expected those of the neuter, **आही**, etc. like **हनी**, etc. Trumpp does not notice this point, and as I am not in possession of any documents in mediæval Sindhi, I have no materials on which to form an opinion. It is to be hoped that the learned author, in the next edition of his very valuable grammar, will furnish some elucidation of this curious anomaly. This tense is all that remains to us in Sindhi of the Sanskrit substantive verb *as*.

Only the aorist, also, has survived in Marathi, which has—

Sing. 1.	अहिं.	2.	आहेस	3.	आहे.
Pl.	1. आहीं	2.	आहां.	3.	आहेत.

These are the regular terminations of the aorist in the neuter verb, only the 1 plural differs slightly, having **ओं** instead of **ऊं**. In M., as in S., the initial vowel is lengthened, the reason for which is not obvious, as there has been no loss of consonants requiring compensatory lengthening. M., like S., has only this one tense from *as*. No traces of it are found in G. or O., except in a negative form, which will be treated of in the next section.

Hindi and Panjabi agree very closely in the aorist. Classical Hindi represents, however, a modern development of this tense. In the mediæval writers, and in the present dialects of the eastern and central Hindi area, the older form is preserved thus—

SINGULAR.					
Old-H.	1. अहं	2. अहि	3. अहि		
Avadh.	1. अहेउ	2. अहेस	3. अहे		
Rewl.	1. हं, ओं	2. हे	3. हे, आ		

PLURAL.

Old-H.	1. अहहिं	2. अहउ	3. अहहिं
Avadhi.	1. अही	2. अहे, अही	3. अहे
Riwāl.	1. हे	2. अहेन, ही	3. अहेन अहे आ.

The 3 singular in the poets is sometimes written with, and sometimes without, the last *h*, as in Kabir कितिया सुब जोक एक अहर "There is one line of duty in the world" (Ram. lvi. 1), or written as a dissyllabic word, as राम नाम अहे निज साह ॥ "The name of Ram is itself the true one" (*ib.* lxiv. 5), or with long *i*, metri gratia, धर्म कहै सब पानी अहरे ॥ "Religion, he saith, is all (one like) water" (*ib.* lxxiii. 5). The 1 singular occurs in रहउ संभारे राम विचारे कहत अहीं (for अहउ) ओ पुकार हो ॥ "Pause and attend, ponder on Ram, thus I am calling aloud, oh!" (*ib.* Kah. 7). So also in Tulsi Das, तमि मति फिरी अहर जसि भाषी ॥ "Thus her mind is changed as fate decrees" (Ay-k. 117), राम चराचर नायक अहही ॥ "Ram is lord of things moveable and immoveable" (*ib.* 445), विधि करतव उलटे सब अहही "The laws of duty are all reversed" (*ib.* 617), सुगम सकल मग तुम्ह कहे अहही "All roads are easy to thee" (*ib.* 574).

By aphæresis of the initial *a* we get the ordinary classical Hindi tense—

Sing. 1. ही, हे, 2. हे, 3. हे. Pl. 1. हे, 2. हो, 3. हे.

The classical language uses *हे* in the 1 sing., but *ही* is used in the poets, in Braj, and in the rustic dialects. Between *ही*, used as a singular, and *हे*, used as a plural, there is the same confusion as in the same persons of the aorist in the ordinary verb (§ 33). The form *ही* seems to belong more naturally to a Pr. *ahānu*, and *हे* to *ahāmi*, and we are led to suspect that an inversion of the two words has taken place. Avadhi 2 sing. *ahes* has, like ML, a variant *ahas*, both of which lead back to an older *ahasi*; just as 3 sing. *ahai* does to *ahati*. It is obvious that had *vas* not been treated as a *bhū* verb, there would have

arisen no such types as *ahai* and *hai*; for *asti* goes into *atthi*, which would have led to something very different.

Panjabi closely follows H., having—

Sing. 1. हाँ. 2. है. 3. है. Pl. 1. हाँ. 2. हो. 3. हन.

It has also, as noticed in § 54, a form of this tense with the participial addition *गा m.*, *गी f.*, etc., as—

Sing. 1. हाँगा. 2. हैगा. 3. हैगा.
Pl. 1. हाँगे. 2. होंगे. 3. हनगे "I am," etc.,

where the type of the future is mixed up with that of the present. I have heard this form used mostly at the end of a sentence, where the speaker seems to hesitate, as if he felt the want of something more to say, and ultimately adds a *gā*. It is also used doubtfully, as when you suggest a possible explanation of some difficulty, and your companion answers "well, perhaps it is so"—*हैगा*.

The same form occurs in the Kanauji dialect of Hindi.

The present of this verb in the dialect of the Rumilian Gipsies (Paspoti, p. 80) adheres more closely to the Sanskrit. It runs thus—

Sing. 1. isám. 2. isán, 3. isí.
Pl. 1. isám, 2. isán, 3. isí.

§ 60. Panjabi has also an imperfect in a great many forms which must apparently be affiliated to this root. First there is a purely participial form—

Sing. 1, 2, 3. सा *m.*, सी *f.*
Pl. से *m.*, सीसाँ *f.*, "I, thou, he was," etc.

Then *गा* is added as in the present, giving *सागा*, *सीगी*, *सेगे*, *सीगीसाँ*. I do not remember ever to have heard this form, but it is given in the Ludhiana grammar. One often hears *सी*, which is properly feminine singular, used for the mascu-

line singular, and plural also. Moreover, there is a defective form having only some of the persons, which looks somewhat inflectional. The singular 2 and 3, and plural 2, are supplied by parts of **आ**.

Sing. 1. **सी**. Pl. 1. **सी**. 3. **सन**. **सेन**.

To this, also, is added **मा**, thus

Sing. 1. **सांवा m.**, **सांगी f.**

Pl. 1. **सामे m.**, **सांगीचा f.** 3. **सनवे m.**, **सनगीचा f.**

Yet another and extremely common form in colloquial usage prefixes **हे** to this type—

Sing. 1. **हैसा-** 2, 3. **हैसी**.

Pl. 1, 2. **हैसे m.**, **हैसीचा f.** 3. **हैसन**.

Most of these forms are dialectic, and, as such, in use only in certain parts of the country. The participial form given first is probably the original; seeing how much the past tenses of the Sanskrit verb had fallen out of use at an early period, we are, perhaps, hardly justified in looking for anything but a participial origin for a modern past tense, and in this view we might postulate a p.p.p. *asita*. On the other hand, however, it so happens that the imperfect of *as* is one of the few imperfects of Skr. verbs, which did live on into the Pali and Prakrit, and the inflectional form of this tense can be phonetically derived therefrom, thus—

Skr. Sing. 1. **आसं**. 2. **आसीः**. 3. **आसीत्**.

Pl. 1. **आसन्**. 2. **आसथ**. 3. **आसन्**.

Pr. Sing. 1. **सी**. 2. **सी**. 3. **सी**.

Pl. 1. **सी**. — 3. **सन**.

If we take this view it would seem that the tense was originally inflectional, but that all other verbs in the language having a participial construction, this also was, by the common

process of mistaken analogy, considered participial also, and *ई* being the ordinary termination of the feminine, *सी* was erroneously taken for a feminine, and a masculine *सा* was invented to suit it, together with the plurals *से* and *सीसा*. This reasoning will account also for the fact that *सी* is often used for the masculine singular. Whether the origin of this multiform tense be participial or inflectional, it is abundantly clear that the present usage of the language presents a maze of confused forms, which, their origin having been forgotten, have become mixed together in great variety.

Here, I would provisionally refer the imperfect in the Braj dialect of Hindi, which is participial in form, and does not vary for person. It is sing. *हो म.*, *हो* *फ.*, pl. *हे म.*, *हीं* *फ.* A variation of this form in Western Rajputana (*Mārwār*) has sing. *हो*, pl. *हा*. I think we must see in this form a p.p.p. of *as*, with loss of the initial vowel, and change of *स* into *ह*.

So, also, here would, on the same principle, come in two preterites or rather imperfects—

Kannuji. Sing. *हतो म.*, *हती* *फ.*

Pl. *हते म.*, *हती* *फ.*, "I, etc., was."

Gujarati. Sing. *हतो म.*, *हती* *फ.*, *हतुं* *अ.*

Pl. *हता म.*, *हती* *फ.*, *हतां* *अ.* *id.*

which appear to come from Pr. present participle *संतो* "being." The change of meaning from a present to an imperfect has an analogy in the treatment of the corresponding tense of the verb *ho* (§ 67).

The Gipsy language has retained an imperfect of this root, not directly derived from the Skr. imperfect, but formed by the addition of the syllable *as* to the present.¹

Sing. 1. *isōmas*, 2. *isānas*, 3. *isās* (*isī + as*).

Pl. 1. *isānas*, 2. *isāns*, 3. *isās*.

¹ Paspati, p. 30. Miklosich, vol. II. p. 15, has a long dissertation on the subject, which, however, is very confused and bewildering to read.

This language uniformly makes an imperfect from every root by adding *as* to the present, but the process is so foreign to our Indian languages as to have no interest for us in the present inquiry.

§ 41. The derivatives of *as* in the present tense are in some languages curiously bound up with the negative into a tense which exists in those languages in which there is no trace of the positive form. Thus Oriya, which has no positive present *as*, has a complete negative present, "I am not, etc."

Sing.	1. नुहै.	2. नुह,	3. नुहै.
Pl.	1. नाहँ.	2. नाह.	3. नाहान्ति.

Here the *n* in the first syllable of the singular is due to some confusion with the tense of *bhū*, to be noted hereafter; but though this form is common in writing, the peasantry often say simply नुहै, "he is not." The insertion of this *n* is accounted for by supposing it to have slipped over from the following syllable, thus, *nuhe* would be for *na hue*, and *nuhanti* for *na huanti*. *Nuanti*, and not *nābhānti*, is the older form, as in—

करुणा हृदय नुहन्ति निरदय ।

"Merciful-hearted they are not, but pitiless."—*Rasak*. vi. 18.

There being in O. no positive present from *as*, the survival of the negative present has naturally been accounted for by referring it to the only positive present remaining, namely, that from *bhū*; but this seems to be a false analogy, because, as will be shown later on, in many constructions the negative is used without the *n*, and is generally so used by the rustic classes.

G. has नघी for all persons of both tenses, they say ऊँ नघी "I am not," तू नघी "thou art not," ते नघी "he is not." This is a case of forgetfulness of the origin of a word leading to its use being extended to cases where it has no right to be, for

नही is clearly derived from अस्ति, the Pr. form of अस्ति with न prefixed, and thus, strictly speaking, belongs only to the 3 sing.

The negative of *as* is kept distinct from that of *bhā* in Marathi; the former runs thus—

Slag. 1. नाही. 2. नाहीस. 3. नाही. Pl. 1, 2. नाही. 3. नाहीत.

In Hindi नहि and नही are used to mean simply "not," and if they ever had any verbal meaning, have now quite lost it. In Sindhi the negative prefixed merely coalesces with it, without in any way influencing it, or bringing about any change in its form; thus नाहि or नआहि "he is not."

§ 62. The present tense from *as* is added to the simple and participial tenses of the neuter, active, or causal stem, to form a class of compound tenses, having significations somewhat more definite than the participial tenses when used alone. In some cases, however, no additional strength of meaning seems to be gained. In the following examples it will suffice to quote the 3 singular in each tense, from which the reader can form the rest for himself.

Hindi adds the present of *as* to the present and past participles of the ordinary verb, to form a definite present and definite preterite respectively, as—

Def. Present देखता है "he is seeing."

Def. Preterite दखा है "he has seen."

Colloquially, also, one sometimes hears a tense formed from the aorist of the verb, and that of the auxillary, as आवे है "he comes." This usage prevails more in the Western Hindi area, where the language is transitional to Gujarati, and is not approved of in classical speech.¹

¹ Kallag, p. 200.

Panjabi has the following:—

Def. Present जाँदा है "he is going."

Def. Imperfect जाँदा सा "he was going."

Def. Preterite गिया है "he has gone."

Pluperfect गिया सा "he had gone."

Sindhi has, like Hindi, the two definite tenses:—

Def. Present हलँदो आहे "he is going."

Def. Preterite हलँचो आहे "he has gone."

Marathi has a wider range; it forms two separate tenses, one from the indeclinable, another from the declinable form of its present participle, a definite perfect from its past participle, and a sort of future with its noun of agency (§ 75). In the last-named instance, however, we have hardly a tense, but rather a participial construction—

Def. Present लिहीत आहे "he is writing."

.. (Emphatic) लिहितो आहे "he is writing."

Def. Preterite लिहिना आहे "he has written."

Future लिहिणार आहे "he is about to write."

The other languages having no traces of this auxiliary, naturally have no tenses formed by it.

§ 63. *ACHH.* - This root must be taken next, in order to preserve the natural sequence of tenses in the modern verbs. It has been customary hitherto to accept without inquiry the assumption that the auxiliaries of this form are derived from *as*; but there are considerable difficulties in the way of admitting this view, which appears, as far as I can trace it back, to have arisen from Vararuchi, xii. 19 (*Śaurasenī*), *asterachkha*. But the next *sūtra* gives *tipātthi*, as far as we can see from the very corrupt state of the text, and the parallel passage from the Sankshipta Sāra (Lassen, App. p. 51) gives only *atthi*,

though fragments of a present tense *achehhāi*, etc., are quoted by Lassen (p. 346) from the latter authority. By his reference to p. 266, the author would seem to favour a derivation from *astī* by inversion *atsi*, as *ts* we know (Vol. I. p. 317) migrates into *ṭṣ*, but this will not account for the other persons of the tense.

It does not, however, follow that Vararuchi, in quoting *achehh* as an equivalent for *as*, ever meant that the former was phonetically evolved from the latter. He is merely giving us the popular equivalent of the classical word. Just in the same way he tells us (viii. 68) that *vutta* and *khuppa* are used for Skr. *manj*, but no one supposes that *vutta* can, by any known process of phonetic change, be derived from *manj*. It is simply a popular word used instead of a refined one. So, also, when he tells us that *achehh* is used instead of *as*, we are not bound to believe that he means to say that the former is derived from the latter, but simply that it is in use side by side with it. Hemachandra, in the same way, gives many popular equivalents of Skr. roots, which are not derivatives from those roots.

Weber, Hala, p. 41, rejects, and with justice, the idea of any connection between the two words, and suggests that *acch* is a form of *gach* (√ *gam*), "to go." This view is supported by citations from the Bhāgavati (i. 411, etc.), as e.g. *acchejja* *ed* *citthejja* *ed* *nialeyya* *ed* *yaṭṭhejja*, "Let him go, or stand, or sit down, or rise up." In the examples quoted from the Saptasāntakam, however, the word bears more often the opposite meaning of standing still; and often may be rendered by either one or the other; thus—

tuppāṇaṇā kina ac-
chasi tti ia pucchāi vahuṇi.—Sapt. 291.

Here Weber translates, "Why *goest* thou with anointed face?" but the scholiast has *kim tiṣṭhasi*, "why *standest* thou?" The general meaning of the passage is merely "why *art* thou" thus, i.e. "why have you got your face anointed?" So in 344,

asamattamanorahain acchanti mithunaim, it must be rendered, "They *are* (or stand) with their desires unfulfilled." In another passage, 169, it has still more unmistakeably the meaning of *stay* :

acchañ tãva mañaharam
piyã muhadamsuñap zimahaggham
tagghamachettasimã
vi jhutti diñña subhãvei,

literally, "Let stand (or let be) the heart-entrancing, very precious sight of the face of my love, even the boundary of the fields of her village, when seen, straightway delights." He means a sort of hyperbole, as we might say, "Her face delights, said I? not her face merely—(or, let alone her face)—why even the sight of the village where she lives delights." Here *acchañ* is 3 singular imperative; the idiom is in common use in modern speech; thus in O. they would say *tãku dekhĩdã thãñ, tãhãr grãm stmã madhya dekhĩdã ãnand afe*, "Let the seeing of her stand aside, the seeing of her village boundary merely is delight." It is like the use of the word *alam* in Sanskrit. Parallel to the use of O. **चा** in this construction is that of **चाक** in B. Thus, Bhãrat Chandra—

उपोषे उपोषे लोक हेल मृत प्राय ।

चाकुक अन्नर कथा बज नाहि पाय ।

"From long fasting the folk were nearly dead,

Let alone food, they could not (even) get water."—Mãnsingh, 446.

Literally, "Let the matter of food *stand* (aside)," see § 69. In the Chingana or Gipsy also *ach* means "to remain," "to stand." Thus, *opré pireñdo achãva*, "I stand on my feet," or simply, "I stand," Paspoti "se tenir debout;" *achilo karkaro* "he remained alone," *ate achilom* "here I am," literally "here I have remained;" *achen devlẽsã* "remain with God," "good-bye" (i.e. "God be with ye"), Pasp. "Salutation trẽs-commune parmi les Tchingianẽs."

Not to multiply examples, the use of this verb in a sense which, whatever its original meaning, has become almost equivalent to that of "being," is well established in the Jaina Prakrit and in Hāla. The aphæresis of an initial consonant is rare. In scenic Prakrit it is confined almost entirely to the root च (jāna), as in *ajāsi* = *jānāsi*, *āpabedi* = *ājnapayati*, etc. Also in *uno* = *punah*, and a few other words.

But I would suggest that this word may after all be nothing more than a form of Skr. √ अच् *akṣ*, "to appear." This root seems to have borne in Skr. rather the meaning of "to reach, pervade" (see Williams's Dict. s.v.), but if we are to connect with it अचि "eye," as seems probable, the meaning of "to see," or "to appear," would be natural to it. It will be shown presently that the various languages have forms ending in छ, स, and ख, and all these three forms phonetically point to an earlier च.¹

Leaving Prakrit scholars to decide whence comes this stem अच् or अछ (Weber writes it in both ways), we may, I think, start from the fact that there is such a stem in Prakrit, and we have the opinion of a high authority for disputing its connection with अस्. Indeed, as has already been shown, अस् so regularly passes into अह in the moderns, that it is difficult to conceive by what process it could ever have become अच्. I

¹ Hemachandra's evidence seems conclusive against any connection between *ach* and *gam*, for he has a sūtra to the effect that words of the class *gam* take the termination *śas*; the list consists of the four words *gacchati* (*gam*), *icchati* (*ich*), *janati* (*jam*), and *nechati* (?)—Pischel, Hem., iv. 213. If *acchati* were only *gacchati*, with loss of the initial consonant, it would hardly be given as a separate instance of the rule. In another passage occurs a use of this word exactly similar to that from Hāla quoted above—

jāmahīṇ viṇaṇi kajjagati jīvaṇaṇ majjhe eḷ
tāmahīṇ acchati iṇa jesa sapaṇa vi antaradoti,

"As long as [your] circumstances in life go badly (literally 'as long as a difficult condition of affairs goes in life'), so long, *as alone* (*acchati*) the lone man, even the good man keeps aloof (literally 'give an interval')," "Tempora et fuerint nobilia, solus eris." Kajjagati = kiryagati, iṇa = iṇa.

have preferred to treat it as a separate stem altogether, and I think this treatment will be found to be to a very great extent justified by the examples from the modern languages which I shall now adduce.

§ 64. Classical Hindi, Panjabi, and Sindhi, do not retain any traces of this root. M. has, however, a complete verb अस, which we should refer, I think, to this root, resting on the well-known peculiarity of M., by which it changes अह, especially when derived from an earlier अ, into स (Vol. I. p. 218). The Sanskrit \sqrt{as} having in M. become *āhe*, an affiliation concerning which there can be no doubt, we are driven to seek for a different origin for M. *ase*, and we find it appropriately and in full accordance with known phonetic processes in अह. M. has the following tenses:—

1. Aorist—

Sing. 1. असै.	2. असस.	3. असे.
Pl. 1. असूं.	2. असां.	3. असत.

where the terminations exactly correspond with those of the aorist in the ordinary verb.

2. Simple imperative—

Sing. 1. अमूं.	2. अस, ऐस.	3. असो.
Pl. 1. अमूं.	2. असा.	3. असोत.

3. Simple future—

Sing. 1. असेन.	2. अससीन.	3. असेल.
Pl. 1. अमूं.	2. असान.	3. असतीन.

4. Present formed with present participle and Sanskrit substantive verb—

Masc. Sing. 1. असतो.	2. असतोस.	3. असतो.
Pl. 1. असतों.	2. असतां.	3. असतात.

5. Conditional similarly formed. Sing. 3 masc. **असता**, etc., as in the ordinary verb.

6. Preterite formed with p.p.p. similar to conditional. Sing. 3 masc. **असला**, etc.

7. Subjunctive formed with future p.p. Sing. 3 masc. **असावा**, etc.

Oriya comes next, with an aorist of old simple present only, which is thus conjugated—

Sing.	1. अहि ,	2. अहु ,	3. अहि .
PL	1. अहु ,	2. अह .	3. अहित .

There being no formation from *√as* in O., this tense does duty for the simple "I am, thou art," etc. With lengthening of the first vowel, in accordance with its usual practice, Bengali has a present, and an imperfect; but in modern times the initial long vowel of the latter has been entirely dropped, so that we now have—

Present	Sing.	1. आहि ,	2. आहिस ,	3. आहे "I am," etc.
	PL	1. आहि ,	2. आह ,	3. आहिन .
Imperfect	Sing.	1. हिनु ,	2. हिन ,	3. हिन "I was," etc.
	PL	1. हिनान् ,	2. हिना ,	3. हिनन् .

Though used as an imperfect, this latter tense is in form a preterite, corresponding to *dekhinu*, etc., of the regular verb. The loss of the initial *ā* is comparatively recent, for it is retained in so late a poet as Bhārat Chandra (A.D. 1711–1755). **आहिन बिहार टाट प्रथम ब्रयेसे** "She was (*i.e.* had been) very wanton in her youth" (*Bidya-S.* 246). It is common enough, also, in the other Bengali poets, **जे तान बेतान सिद्ध आहिन तोमार** "What vicissitudes were experienced by you" (*Kasi-M.* 284), and the poets of the present day freely permit themselves the use of this form as a poetic licence when their metre requires it.

Passing westwards from Bengal, we come to the extreme

eastern limits of Hindi, in the Maithila province (Tirhut, Purnia, etc.), where the rustic dialect has the following present:

Sing. 1. हूँ, 2. हू, 3. है. Pl. 1. हूँ, 2. हूँ, 3. है.

It has also a feminine singular हौ, plural हौ, uninflected for person.

Close to the Bengali frontier, near the junction of the Mahanandā and Kankai rivers, they speak a curious sort of mixture of Hindi and Bengali, and have a present—

Sing. 1. हूँ, 2. हिस, 3. हर. Pl. 1. हूँ, 2. हूँ, 3. है.

Further west, in the same district, one hears—

Sing. 1. हौ, 2. हूँ, 3. हर. Pl. 1. हूँ, 2. हौ, 3. हार.

In Bhojpurī, for the present is often heard है, which is unchanged throughout both persons. This widely-used form seems to confirm the supposition of the derivation from चच्, for च changes both to च्च and to च्च.

From the Himalayan districts of Kumāon and Garhwāl, Kellogg (p. 291) gives a present of this verb, and it is in use in Eastern Rajputana. It is also the ordinary substantive verb in Gujarati—

SINGULAR.

Kumāon.	1. हौँ, हूँ	2. है	3. हू.
Garhwāl.	1. हौँ	2. हूँ, है	3. हू.
E. Rajputana.	1. हूँ	2. है	3. है.
Gujarati.	1. हूँ	2. है	3. है.

PLURAL.

Kumāon.	1. हूँ, हौँ	2. हूँ	3. हूँ, हौँ.
Garhwāl.	1. हौँ, हूँ	2. हूँ, हूँ	3. हूँ.
E. Rajputana.	1. हौँ	2. हौँ	3. है.
Gujarati.	1. हरये	2. हौँ	3. है.

The first and third of these have also a preterite participle

in type like most of the preterites. Thus in Kumāon they say sing. **हियो**, pl. **हिया** or **हियां**, which seems to point to a Skr. p.p.p. **अचित** = Pr. **अच्छियो**. In Eastern Rajputana there is sing. **हो**, pl. **हा**.

Although modern classical Hindi does not use this root, yet it is found with the initial vowel in the shape of an indeclinable present participle in the old poets, as in Tulsī's *Ramayan*—

आप अहत जुवराज पद रामहि देउ मरेस

“Thyself remaining, give the heir-apparentship to Ram, O king!”
—*Ay. A. II.*

That is, “during thy lifetime,” literally “thou being.” The dictionary-writers erroneously give this as a *Tadbhava* from **अवत**, with which it has nothing to do.

It is worthy of consideration whether the forms of the imperfect in P. given in § 60 should not be referred to this root rather than to *as*. The change of **ह** into **स** so characteristic of M. would thus find a parallel in Panjabi.

Gujarati has also a present participle indeclinable **हता** and **हते** “(in) being,” and declinable **हती** *m.*, **ती** *f.*, **तुं** *n.*; pl. **हता** *m.*, **ती** *f.*, **तां** *n.* “being.”

§ 65. The compound tenses formed by the addition of this auxiliary are most numerous, as might be expected, in Marathi, that language having a larger range of tenses of the auxiliary itself than the sister-tongues. First, a present habitual is formed by adding the present of the auxiliary to the present participle of the verb, as **राहत असतो** “he is living,” i.e. “he habitually resides,” **लिहीत असतो** “I am (always employed in) writing.”

Next, a past habitual, by adding the aorist of the auxiliary to the present tense, as **बसत असे** “he was in the habit of sitting.” It will be remembered that in M. the aorist has the sense of a past habitual in modern times. This compound

tense seems to differ very little in meaning from the simple tense.

There is also a compound present of the conditional, wherein the leading verb is in the present participle and the auxiliary in the conditional present. It is used with **जर** "if" prefixed, either expressed or understood, as **जर काम करीत असता** "If he were doing the work," **पाऊस पडत असता** "(If) rain were to fall (as it is now falling)." The same tense of the auxiliary, when used with the past participle, serves as a conditional preterite, as **पडला असता** "he would have fallen (if, etc.)."

With the preterite of the auxiliary and the present participle of the leading verb is constructed a present dubitative, as **तो जात असला तर ते काम त्याला सांगा** "If he should be going, then entrust this affair to him." Similarly, with the same part of the auxiliary and the past participle of the leading verb is made a past dubitative or pluperfect, as **तो आला असला तर** "Should he have arrived, then, etc."

So, also, with the future participle and the past auxiliary, as **जर तो जाणार असला तर मला सांग** "Should he be about to go, then tell me."

The future of the auxiliary also forms three tenses with the present, past, and future participles of the leading verb respectively. It is difficult to give these tenses any definite name; the senses in which they are employed will be seen from the following examples:—

1. Present participle of verb + future of auxiliary—

तुझा बाप तुझी वाट पाहत असेल "Your father will be waiting for you" (*i.e.* is probably now expecting you; *edhe pāhat*="looks at the road," idiomatic for "expects").

2. Past participle of verb + future of auxiliary—

तो आला असेल "He will have come" (*i.e.* "has probably arrived by this time").

3. Future participle of verb + future of auxiliary—

- मी लिखिहार असेन "I may be now going to write" (i.e. "I shall probably be writing presently").

The above is a fair illustration of the remark which I have frequently made before, that the modern verb, while throwing aside all the intricacies of the synthetical system of tenses, still manages to lose nothing of its power of expressing minute shades of meaning. On the contrary, by its almost unlimited power of forming compound tenses, it obtains a fullness and delicacy of expression, which even the synthetic verb cannot rival. Indeed, this fullness is at times somewhat embarrassing, for the subtle distinctions between one tense and another are very difficult to grasp, and, as might be expected, careless or uneducated speakers are unable to observe them accurately. The minute analysis of these various tenses belongs to the domain of syntax rather than to that of formore, and a very long dissertation might be written upon the numerous shades of meaning involved in each one of them. The selection, for instance, of the different parts of the leading verb and auxiliary depends, to a great extent, upon the method of reasoning employed unconsciously by the speaker. These compound tenses are, in fact, rather phrases than tenses, and much depends upon whether the speaker regards the action as already past, or as actually being done with reference to the rest of the sentence. When we translate one of these phrases into English, or any other language, we do not really translate, but substitute our own way of expressing the idea for the native way. A literal word-for-word translation would be almost unintelligible. Thus, in the sentence above, *Rām jāt aulā, tar tē hūm tyālā sāngā*, the words are actually, "Ram going was, then that affair to him tell," where the speaker, as it were, pictures to himself that his messenger, after receiving orders, goes to Ram and finds that he was just going, and therefore

tells him the affair. Complicated and of course unconscious undercurrents of thought like this underlie much of the elaborate mechanism of the compound tenses in all our seven languages, and we often find natives of India who can speak English composing in our language elaborate sentences of this sort, to the entire disregard of our English idioms, because they think in Hindi or Marathi, and then translate the idea into English. This fact, which all observant Englishmen who have lived long in India must have noticed, lies at the root of much of the difficulty which our countrymen experience in making themselves understood by natives. They think in English, and render word for word into Hindi or Marathi; thus probably producing a sentence which means something widely different from what they intended. It is the same with all foreign languages; until a man learns to *think* in the foreign language, and utter his thoughts in the shape that they have in his mind, he can never hope to speak idiomatically. In seeking to explain the compound tenses of the modern Indian verb, therefore, it is necessary to analyze the connection and sequence of mental impressions to which they owe their origin, a task for the metaphysician, and not for the student of comparative philology.

Gujarati has also a plethora of compound tenses, but they are less complicated than Marathi, perhaps because the language has been less cultivated. In the simpler languages delicate nuances of expression do not exist, and if one wishes to translate any such phrases into one of these simple languages, it must be done by a long string of sentences. Thus, in trying to exact from a wild forester of the Orissa hills an answer to the question, "Did you know that Ram had run away before you went home or afterwards?" one has to go to work in this way, "Ram fled?" Answer, *ho!* (Yes). "You knew that fact?" *ho!* "You went home?" *ho!* "When you reached home they told you 'Ram is fled,' thus?" answer *ná! ná!* (No! No!).

"When you did not go home, before that, they told you?" *he!* So to get out the meaning of the Marathi sentence quoted above, "If he should be going, then entrust this affair to him," one would have to say, "Near him you having gone, he 'I am now going' having said, this word having heard this matter to him you will tell." Perhaps in citing an Orissa wild man of the woods, I am taking an extreme case; but the remarks will hold good, more or less, for all the peasantry and lower classes all over India, and it must be remembered that the expression "lower classes" means in India eight-tenths of the whole population.

The compound tenses formed with the auxiliary **है** in G. are the following :—

1. Definite present; aorist of verb + aorist of auxiliary, as **करे है** "he does."

Sometimes both verb and auxiliary lose their final vowel, as **कर ह** for **करे है** "thou dost," **करे ह** "he does." **करो ह** for **हो** "ye do," etc.

2. Definite preterite; p.p. of verb + aorist of auxiliary, as **दायो है** "he has given," active used in *karma* construction with instrumental of subject. **तेणे काम बजावेलुं है** "he has performed the work;" neuter in *kartā*, as **ऊं चढ्यो कुं** "I have ascended."

3. Another definite preterite with the second form of the p.p. in *elo*, as **चढेलो कुं** "I have ascended." There seems to be no great difference of meaning between this and the last.

4. Definite future; future participle of verb + aorist of auxiliary, as **खानारो है** "he is about to eat."

5. Another tense with the second form of the fut. part. in *cāno*, as **ऊं करवानो कुं** "I am going to do." The uninflected form of the future participle in *ār* may also be used, as **तुं तुं करनार है** "What art thou going to do?" These definite futures differ from the simple future in implying intention and

definite purpose, much as in German *er will thun* differs from *er wird thun*.

The auxiliary **है** is sometimes also used after another auxiliary derived from *bhū*, as **छोड़ती होय है** "he is (now) loosing." Of the tenses so formed more will be said further on.

It seems from comparing the examples given of these tenses that there is not for each one of them a distinct special meaning, but that they are used somewhat vaguely, the auxiliary being added or omitted at pleasure. This is certainly the case in Hindi, as will be seen below; and in the poets, who are our only guides for the mediæval period, metrical necessities, rather than any desire to bring out a particular shade of meaning, appear to determine which form shall be used.

Those dialects of Hindi which possess tenses from this root, use them also as auxiliaries.¹ Eastern Rajputana has the definite present formed by the two aorists, that of the verb and that of the auxiliary, **मारुं हूँ** "I am beating," also a preterite composed of the p.p. of the verb and aorist of auxiliary, as **मारयो है** "I have beaten." There seems to be some anomaly in this latter, for in the preterite of the active verb **है** is added to all six persons, whereas, when used with the substantive verb **हो** "be," the auxiliary is participial sing. **हो**, pl. **हा**. Perhaps we hardly know enough of these rustic forms as yet to be able to draw accurate distinctions.

Garhwali forms its definite present from the present participle and the aorist **मारदो** (or **मारदू**) **हौं** "I am beating;" and its preterite in the same way from the p.p. and aorist **मारै हूँ** "he has beaten," **मारा हूँ** "they have beaten." So does Kumaoni, present **मारनु हूँ**, preterite **मारो हूँ**; but in these, also, there is still room for more accurate analysis, and a wider range of observations requires to be made in remote and little known parts of the country.

¹ Kellogg, Grammar, p. 240.

Bengali has four well-defined tenses. The definite present and imperfect are formed respectively by incorporating the *norist* and imperfect of the auxiliary into one word with the locative case of the present participle, thus—

Def. Present देखিতেছি "I am seeing" (*dekhite + āchhi*).

Def. Imperfect देखিতেছিল "I was seeing" (*dekhite + [ā]chhila*).

In the latter of these tenses the 1 pl. has in ordinary speech to a great extent usurped the place of the 1 sing., and we more frequently hear—

देखितेছিলাম "I was seeing" (*dekhite + [ā]chhilām*).

By incorporating the same tenses of the auxiliary into one word with the conjunctive participle (see § 73), it forms a definite preterite and a pluperfect, as

Def. Preterite देखিয়াছি "I have seen" (*dekhilā + āchhi*).

Pluperfect देखিয়াছিল "I had seen" (*dekhilā + āchhila*).

Here, also, देखিয়াছিলাম is common for 1 sing. Wonderful corruptions occur in pronunciation in these tenses: क loses its aspirate and becomes च, so that we hear for करितेছি a word that sounds *kôrche*, and may be written करचे, for होइतेছি "is" vulgo *hōche* (हचे), for देखিয়াছি *dekhiche* (देखिचे), and for देखিয়াছিলাম *dekhichilēm*, or *dekh'chilēm* (देखिचिलेम?). So also for चालितेছি "goes" *chalōche* (चलचे). These forms are freely used in conversation by educated persons, and some recent authors of comic novels and plays introduce them into the mouths of their characters. The same remark applies to all tenses of the verb, and it is a curious subject for speculation, whether the growth of literature will arrest the development of these forms, or whether they will succeed in forcing their way into the written language, and displace the longer and fuller forms now in use. If the latter event takes place, we shall see enacted before our eyes the process of simplifica-

tion which has been so fertile a cause of the formation of the present types in the whole neo-Aryan group. I anticipate, however, that the purists, aided by the conservative influence of a literature already copious, will ultimately carry the day against the colloquial forms.

Oriya has the four tenses corresponding to Bengali, but only two of them are formed with the auxiliary we are now discussing, the definite present and the definite preterite—

Def. Present कर रहिँ "I am doing" (pres. part. *karo* "doing").

Def. Preterite करि रहिँ "I have done" (p.p. *kari* "done").

Here, also, colloquially, the auxiliary is generally incorporated with the verb, and they say करहिँ and करिहिँ respectively. In the south of the province, also, the older form of the present participle in उ prevails, and one hears करेहिँ "he is doing," and contracted रहिँ "he is."

§ 66. *bhū*. This widely-used root took as early as the Pali and Prakrit period the form *hō*; and in that form it has come down to modern times. As the ordinary substantive verb "to be," it has a full range of tenses in all the languages, and it not only serves as an auxiliary, but takes to itself the tenses of the other auxiliaries like any other verb. In the latter capacity it need not here be discussed, as the remarks which have been made concerning the ordinary verbs will apply to this verb also.

Although *hō* is the general form of this root in all the Indian languages, yet there are one or two exceptions in which the initial *bh* is retained. In Pali, both *bhacati* and *hoti* are found for 3 sing. pres., *abharā* and *aharā* impf., *bharatu* and *hotu* impf., and in Sauraseni Prakrit we find *bhodu*=*bharatu*, *bhavi*=*bhātrā*, and the like. Distinct traces of the retention of the *bh* are still in existence in some rustic dialects of Hindi, and in the old poets. In the latter, a p.p. sing. भयी *m.*, भई *f.*, pl. भए, is extremely common, used alone as a preterite, or with the

verbal endings, as भयेउ, भयउ, etc. It is also contracted into भौ; and in the modern form भया "was," may be heard commonly in the mouths of the lower orders all over the Hindi area of the present time. This form presupposes a Pr. भविष्यो = a Skr. भवित, with elision of the व, and य called in to fill up the hiatus. I give from Kellogg the dialectic forms (Gr. p. 236)—

SINGULAR.

Kannuji. ¹	1. 2. 3. भयो <i>m.</i> , भई <i>f.</i>		
Braj.	<i>id.</i> भयी <i>m.</i> , <i>id.</i>		
Old-Pūrbī.	1. भयउ <i>m.</i> , भा, भरउ <i>f.</i>	2. भयउ <i>m.</i> भर <i>f.</i>	3. भयउ <i>m.</i> , भा भई <i>f.</i>
Avadhī.	1. भयेउ <i>m.</i> , भवा, मयिउ <i>f.</i>	2. भयेस <i>m.</i> मयिसि <i>f.</i>	3. भवा, भया <i>m.</i> भई, भै <i>f.</i>
Riwāī.	1. 2. 3. भा, भ.		
Bhojpuri.	1. भोइली, भेली.	2. भेल.	3. भेलस, भेल.

PLURAL.

Kannuji. ¹	1. 2. 3. भए <i>m.</i> , भई <i>f.</i> (also भये <i>m.</i>).		
Braj.	<i>id.</i>		
Old-Pārbi.	1. भये, भै <i>m.</i> भई <i>f.</i>	2. भये, भयेइ <i>m.</i> भई, भईइ <i>f.</i>	3. भये, भै <i>m.</i> भई <i>f.</i>
Avadhi.	1. भये <i>m.</i> भै <i>f.</i>	2. भये <i>m.</i> मयिउ <i>f.</i>	3. भये <i>m.</i> भयेनि <i>f.</i>
Riwāi.	1. 2. 3. भयेन, भयेन्ह.		
Bhojpuri.	1. भोइली, भेली.	2. भेलइ.	3. भेलन.

The verbal affixes are the same as those in the ordinary verb explained at § 33. Chand uses the same form as in Braj and

¹ Kannuji may be taken to mean the speech of the country between the Ganges and Jumna, the heart of the Hindi land; Braj, that of the right bank of the Jumna; Old-Pārbi, of the country north of the Ganges from the Gandak river eastwards; Avadhi, that of Oudh (Avadh); Riwāi, of the country south of the Ganges and between the Chambal and the Son rivers. Braj and Old-Pārbi are the dialects in use in the mediæval poets generally.

Kananji, thus भयौ कोटि तामस ताम ॥ "He became violently disturbed with anger" (Pr. R. l. 48), अनंगपाल भयो राज ॥ "Anangapāl became King" (iii. 17), पुत्र कथा ज्यौ भई । सनौ खु कही अपुत्रह ॥ "How the former matter happened, listen while I tell the wonderful tale" (iii. 15), पुत्र होत भई मृत्य ॥ "While the son was being (born), she became dead" (l. 170), भए आदि अंत कविता जिते । "As many poems as have⁴ been (written) first and last" (l. 10), भए विकल लोग घाइल च ताप ॥ "The folk became distressed, (being) wounded and heated" (xxi. 5). Contracted मन भौ हास करन पुनि आइय ॥ "Daughter became (arose) in her mind, then after pity came" (iii. 10). The use of this tense is so common in Chand as to supersede the other form of the preterite *हूआ* to a great extent.

A few examples may be added from Kabir: दुतिया नाम पारबति भयक । तप करता संकर को दयक ॥ "Her second name was Pārvati, the ascetic (i.e. Dakṣha) gave her to Śankara" (Ram. 26, 5), येके पुरुष येकही नारी । ततिं सनि यान भी चारी ॥ "One male (energy), one female, from them were produced four kinds of living beings" (ib. 6), एक अंड ओंकार ते यह सब जन भयौ पसार "From one egg, the word *Om*, all this world has been created" (ib. 8). In these three quotations all three forms of the participle are used side by side.

Tulsi Das does not confine himself to Old-Pārbi forms, but uses, also, those classed above under Braj, as भयौ बहोरि भयौ तेहि खारा "It filled again and thus became salt (i.e. the sea)" (Lanka-k. 3), सेतुबंध भइ भोर अति । "The Setubandh became very crowded" (ib. 10). But the Pārbi form is more common, as in माथ नाइ पूहत अस भयक "Bowing his head, thus he was asking" (Kis-k. 2), करि दंडवत कहत अस भयक "Making salutation, thus he was saying" (Ar-k. 259). The contracted form is also very common, as भे मन मुदित पाइ प्रिय साधू । "He became (or was) enraptured at meeting with the beloved" (Ay-k. 441).

Closely connected with the Bhojpuri भैल is the form भैल, used by the half-Bengali half-Maithil poet Bidyapati, as in शून भैल मन्दिर शून भैल नगरी ॥ शून भैल दशदिश शून भैल सगरी ॥ "Empty has become the temple, empty has become the city, empty have become the ten regions, empty has become everything!" (Pr. K.S. 118). कौकिल कलरवे मति भैल भोरा । "From the sound of the koil's notes my mind has become distracted" (ib. 120). It does not vary for gender or person.

I am not aware of the existence in any of the other languages of this type with the initial *bh*. It is, as far as I have been able to ascertain, confined to the rustic Hindi dialects mentioned above. In all other respects Hindi keeps to the type *ho*, like the cognate languages.

The aorist has the following forms:—

	SINGULAR.			PLURAL.		
Hindi.	1. होऊँ	2. होए	3. होए.	1. होएँ	2. होओ	3. होऐ.
P.	1. होवा	2. होवि	3. होवे.	1. होये	2. होवो	3. होय.
S.	1. ऊँचा	2. ऊँचै	3. ऊँच.	1. ऊँ	2. ऊँओ	3. ऊँचति.
G.	1. होउं	2. होय	3. होय.	1. होरये	2. होओ	3. होय.
M.	1. होई	2. होईस	3. होई.	1. होऊँ	2. ऊँ	3. होईत.
O.	1. होऐ	2. हेउ	3. ऊँच.	1. हेउं	2. ऊँच	3. ऊँचति.
B.	1. हर	2. हउ	3. हय.	1. हर	2. हओ	3. हन.

In Hindi this tense, as mentioned before, is frequently used as a potential in all verbs, and especially so in *ho*, where, owing to the existence of an aorist with signification of "I am," etc., from *as*, the tense derived from *ho* is more usually employed to mean "I may be." The Pārbatia or Nepali dialect also uses this tense as a potential, thus—

Sing. 1. हौं. 2. होस. 3. हो. Pl. 1. हौं. 2. हो. 3. ऊँ.

Several peculiarities call for notice in this tense. In classical Hindi there is the usual diversity of practice always observed in stems ending in *d* or *o*, as regards the method of joining the

terminations. Thus we have for 1 sing. होँ in addition to होऊँ; 2 and 3 sing. are written होए, होय, होवे, and हो; 1 and 3 pl. होए, होय, होवैं, होँ; 2 pl. हो as well as होओ, which makes it identical with the same person in the aorist of *as*.

Dialectically the chief peculiarity, which, like most dialectic forms, is merely an archaism preserved to modern times, consists in the hardening of the final *o* of *ho* into *r*. This is observable in the Rajputana dialects, and partially also in that of Riwā (Kellogg, p. 233).

SINGULAR.

PLURAL.

Rajp. 1. होऊँ 2. हो 3. हो

1. होँ 2. होओ 3. हो

Riwā. 2. होस 3. होय.

2. होव 3. होवैं.

This peculiarity is more marked in the simple future noted below. It also occurs in M., where the aorist, as shown above, when used as a past habitual = "I used to be," takes the terminations of the active verb; but when used as a simple present, those of the neuter, as—

Sing. 1. होय 2. होस 3. होय. Pl. 1. होँ 2. हो 3. होत.

The same combination occurs throughout this tense when used negatively = "I am not," as—

Sing. 1. नहो 2. नहोस 3. नहो.

Pl. 1. नहोँ 2. नहो 3. नहोत (नहोत).

and in other parts of the verb affirmative and negative.

In Sindhi this root is throughout shortened to *ho*, and when the vowel is lengthened by the influence of affixes, it becomes *hō*, rarely *ho*, except in poetry, where 3 sing. होइ is met instead of होए. The *j*, which in some forms of Prakrit is inserted between the stem and its termination, appears here also, as—

Sing. 1. होवाँ 2. होवे 3. होवे. Pl. 1. होवू 2. होवो 3. होवनि.

Oriya sometimes shortens *o* to *u*, but in that language the distinction in pronunciation between these two vowels is so

slight that in writing also the people often confuse the two. In a great part of this verb, however, the *o* is changed to a very short *e*. This is generally, but not always, due to a following *i*, where, from the shortness and indistinctness of the *o*-sound, $o + i = a + i = ai = e$. Thus 2 sing. is in full होउ, though generally pronounced *he*. In Bengali the *o* is generally written *a*, that vowel having in B. usually the sound of short, harsh *o*, like the *o* in English *not*, *rock*, etc. Thus it comes to pass that होय and हन may be regarded, either as shortened from होय and होन respectively, and thus derivable from *he*, or as equivalents of H. हो and हूँ, and so to be referred to *ae*. In practice, certainly, the meaning in which they are used favours the latter hypothesis.

The imperative in H. is the same as the aorist, except 2 sing., which is simply हो "be thou." In the Rajput dialects the 2 sing. is हो, 2 pl. होवो; the former occurs also in Chand as a 3 sing. in सब बोनि कही हो सिद्धि सिद्धि । "All speaking, said, 'May there be success, success!'" (i. 178) The Riwa dialect has 2 sing. हास, 2 pl. हाव, like the present.

P. 2 sing. हो, 2 pl. होवो. S. has 2 sing. हो and होउ, 2 pl. हो and उचो. G. for 2 sing. and 2 pl. both हो.

M. Sing.	1. होऊ	2. हो	3. होवो, होऊ.
O. "	1. ऊए	2. हो	3. हेउ.
B. "		2. होउ, हउ	3. हउक.
M. Pl.	1. होऊ	2. हा	3. होवोत, होऊत.
O. "	1. हेउ	2. ऊच	3. हेउतु.
B. "		2. हउ	3. हउन.

The respectful form of the imperative follows that of the other verbs in the various languages. H. here inserts ज, making होजिये "be pleased to be," G. होजे.

Nepali has somewhat abnormally 2 sing. हस, 2 pl. होस.

The simple future in G. is formed according to the usual

rule; but here again we meet the tendency so common in B. and O., to express the *o* sound by *a*, so that side by side with the regular forms होरु, होये, etc., we have also sing. 1. हरु, 2. हये, 3. हये; pl. 1. हरुं, 2. हयो, 3. हये, which we must apparently pronounce *hōsh*, *hōsho*, etc.

The simple future in old and rustic Hindi is regularly formed, as होरहौ "I shall become," etc.; but in this tense the employment of the type है is very common, both in the poets and among the peasantry of the western area. Thus—

	SINGULAR.			PLURAL.		
Braj.	1. हैहौ	2. हैहे	3. हैहे.	1. हैहें	2. हैही	3. हैहे.
West Rajp.	1. हैह	2. हैही	3. हैही.	1. हैहां	2. हैहो	3. हैही.

We have also the curious transitional form of East Rajputana which approaches so closely to G.—

Sing.	1. हैखू, हैसू	2. हैसी	3. हैसी.
Pl.	1. हैखां, हैसां	2. हैखो, हैसो	3. हैसो.

Further details of these dialectic forms will be found in Kellogg's admirable grammar. When the wilder parts of the country, at present little known to Europeans, shall have been more fully explored, we may expect to obtain many finer gradations of transition; for all over India the Gujarati proverb holds true, "Every twelve *kos* language changes, as the leaves change on the trees."

The Braj form is interesting to students from the fact of this dialect having become at an early date the traditional literary vehicle of the Krishna-cultus, and thus to a certain extent a cultivated classical language. Its forms, however, are found in Chand long before the revival of Vaishnavism. He uses the full form होरहे, a shortened form होहि, and the Braj हैहे. Also occasionally होर in a future sense, which is probably a form of the 3 sing. aorist for होए (झए). Examples are प्रणी होरहे तिन बंसह ॥ "His race shall become extinct" (Pr.-R. iii.

29), होहि जदयनि सपूतह ॥ "The Jadavnni *shall be* with child" (i. 249), दिवस पंच के अंतर । होर सु दिल्ली पति ॥ "In the space of five days, he *shall become* lord of Dilli" (iii. 411), झन्ना न खोर झिह न खोर । "There has not been, and there *shall not be*, any (like him)" (i. 331).

To Tulsi Das, Kabir, Bihari Lal, and all the mediæval poets होरहै, होइहि, होहि, and होर are the forms of the ordinary regular future; होमा is very rarely met in their pages, if at all. Instances are, भये जे अहहिं जे होइहि आगे । "They who have been, are, and *shall be* hereafter" (Tulsi, Ram. Bal-K. 30), होइहि यही कल्याण अब । "Now this good fortune *will be* (will happen)" (ib. 82), अब ते रति तव नाथ कर होइहि नाम अनङ्ग । "Henceforth, Rati, the name of thy lord *shall be* Ananga" (ib. 96). The form झिह does not appear to be used by Tulsi Das, though in Bihari Lal the participle झि is common; this latter poet's subject does not give much occasion for the use of the future. बजरि खनम न होइहै ताकी "There *shall not again be* birth to him (he *shall escape* the pain of a second birth)" (Kabir, Ram. 57). In the majority of the poets the forms *hai* and *hoi* seem to be regarded as virtually the same, and they use indifferently the one or the other as it suits their metre. There is unfortunately as yet no critically prepared or corrected edition of the texts of any of them, and owing to the mistaken policy of the Government, by which artificial works written to order have been prescribed as examination tests, the genuine native authors have been entirely neglected.

§ 67. The participial tenses are formed as in the ordinary verb. The present participle is in Old-H. ज्वंत, as in Chand इसन ज्वंत निवारि "Laughing *being* prevented" (Pr.-R. i. 6). In modern H. the classical form is होता, होती, Brāj होतु; and in most of the rustic dialects simply होत indeclinable. In the Rajputana dialects the form ह्येती is found. The other languages have P. जंदा, S. हंदो, G. होतो, M. होत, होता.

होताना, O. होउ, B. होइते, though really the locative of a present participle is used as an infinitive.

The past participle is in H, one of the old Tadbhava class mentioned in §§ 46, 47, and as such takes its type from Skr. भूत, H. हुआ. The vowel of the stem is in the present day commonly pronounced short हुआ, and this practice is not uncommon in the poets. P. होइया, S. हुआ, G. होयो, होयो, होययो.

M. has a strange participle झाला, which may be explained as phonetically resulting from an older form झाला, shortened from होयाला. I can trace nothing similar in any of the cognate languages, though the change from झ to झ is perfectly regular. In the poets a form जाला is found, and even जाहाला. These types have led some writers to regard this participle as derived from the root या. This, however, is very doubtful. Tukaram always uses जा, as आजि पुरले नवम । धन्य जाला हा दिवस ॥ "To-day our vows are heard, blessed *has become* (is) this day" (Abh. 508).

O. होइ, होला, B. होइल, हइल.

The future participle is in M. झावा, O. होव, B. हइव, contracted to हव (hōbō).

These participles serve as tenses, either with or without the remains of the old substantive verb, just as in the regular verb, and need not be more particularly illustrated.

One point, however, deserves a passing notice. The present participle in M. forms with the aid of the substantive verb as a regular present, as 3 sing. होतो *m.* होती *f.* होतें *n.* But the slightly different form of this tense, which in the ordinary verb (§ 42) expresses the conditional present, is in the case of *ho* employed as an imperfect. Thus, while the form just given, *hoto*, etc., means "he becomes," the conditional form *hotā*, etc., means "he was." This usage is analogous to that of the G. *huto*, etc., mentioned in § 59, and agrees with a form of preterite used in Braj Hindi, sing. उती *m.*, उती *f.* etc. It has been

suggested that this latter is derived from Skr. भूत; but against such a derivation must be set the fact that *bhūta* had at a very early epoch lost its *t* and become in Pr. *hūam*, *hōam*, and the like; also that in Chand the *anusudra* of the present participle is still preserved, as in दुज जंतो दुजनिघ भोर । (Pr.-R. i. 49), "Brahman became to Brahman hostile;" and a few lines further on in the same passage इक जंतो सिनिघ रिष्य "There was one Śringa Rishi."

§ 68. The tenses of the regular verb formed by the additions of parts of the verb *ho* are numerous, but vary in the different languages. In Hindi we have mostly tenses with a general sense of doubt or contingency, in which those compounded with the present participle run parallel to those formed with the past participle. Thus with गिरता "falling," and गिरा "fallen" (*gir* "to fall")—

1. गिरता होऊँ (aerist of *ho*) "I may be falling," which may be called a definite present subjunctive or contingent; as in answer to a question हमारे घर को जाते "Are you going to my house?" one might answer जाता होऊँ "I may be going (but am not sure)."

2. गिरता हूँगा (future of *ho* shortened from होऊँगा) "I shall or must be falling," a future contingent, or doubtful; as in asking राम अबही जाता है "Is Ram coming now?" the reply is, हाँ जाता होगा "Yes, he will be coming," or, "he must be coming," i.e. "I suppose he is now on his way here."

3. गिरता होता " (If) I were falling," conditional present definite. This is very rarely used, but it seems to denote a phase of action which could not, when occasion requires, be otherwise expressed. It may be illustrated thus: राम यदि भागता होता तो मैं उसको रोकता "If Ram were now running away, I would stop him" (but as he is not, there is no need for me to do so). It is the present participle of the auxiliary used in a conditional sense, as in the simple verb.

4. **मिरा होऊँ** "I may have fallen." Also somewhat rare. In answer to **तुम ने उसके नाम कबही सुना** "Have you ever heard his name?" one might say **सुना होऊँ** "I may have heard it" (but have now forgotten it).

5. **मिरा हूँगा** "I must or shall have fallen." This is a very commonly used tense. Thus **हूँगा होगा** is a frequent answer where a person is not sure, or does not care; and is almost equivalent to "I dare say," "very likely," "I shouldn't wonder." Also, it indicates some degree of certainty, as **राम ने संवाद पाया है** "Has Ram received the news?" Answer, **पाया होगा** "He will have received it," meaning "Oh yes, of course he has," or with a different inflection of voice, "I dare say he has."

6. **मिरा होता** "(If) I had fallen." Hardly ever used, except in a negative sentence. I do not remember to have heard it in conversation; though an analogous form with the participle of **रह** may be heard in eastern Hindi, as **तुम यदि कह रह आए रहते** "If you had come yesterday." The only instance Kellogg gives is apparently from a translation of the Bible (John xv. 22) **जो मैं न आया होता उन का पाप न होता** "If I had not come . . . they had not had sin."

Punjabi makes a somewhat different use of the tenses of *ho*. In this language *ho*, when used as an auxiliary, has rather the sense of continuance in an act, than that of doubt or contingency. Thus we find the ordinary definite present **जाँदा है** "He is going," side by side with a continuative present with *ho*, **जाँदा हूँदा है** "He kept on going;" also, "He is in the habit of going." So, also, there is a continuative imperfect **जाँदा हूँदा ना** "He kept on going," "He was always going." Similarly, there are two forms of the future, one with the simple future of *ho* (like No. 2 in Hindi given above) **जाँदा होवेगा** "He will probably be going," and a continuative form containing *ho* twice over, **जाँदा हूँदा होवेगा** "He will probably be always going." Thus, to the question **उह कितनाक़ चिर उधे**

रहिंदा होवेगा "How long will he be stopping there?" the answer might be, उधे उह दा घर है उह ता सदा सरबदा उधे रहिंदा जंदा होवेगा "His home is there, he will probably always be stopping there." With जे "if" prefixed, the tense जांदा जंदा means "If I were in the habit of going."

Parallel to the above are two tenses with the aorist of हो; जांदा होवां "I may be going," and with "if" prefixed, "If I should be going;" and जांदा जंदा होवां "I may be constantly going," "If I should be always going."

With the past participle they combine the present participle of हो, as रक्खिआ जंदा "I would have put," and conditionally, जे में रक्खिआ जंदा "If I had put," "If I should have put;" as in उह जे रुपईया बणीए दे हत्व दिता जंदा तां मानु मिलिआ जंदा "If he had given the money into the care (lit. hand) of the merchant, then we should have got it."

There is also a combination of the past tense with the aorist of हो, as गिआ होवे "He may have gone," or, "If he has (perchance) gone."

Colloquially, they frequently also insert होइआ pleonastically in phrases where it is difficult to attach to it any definite meaning. Thus उन बलिआ है "he has sent," and बलिआ होइआ है "he is having sent." In this latter phrase there is, perhaps, implied the idea of the action having been performed some time ago, and being still in force, so that it harmonizes with the generally continuative meaning of हो as an auxiliary in Panjabi. Also, though it is not noticed in the grammar, I remember having heard frequently this word होइ, repeated probably for emphasis, as मारिआ होइआ होइआ "beaten" (repeatedly, or very much indeed).

In Sindhi the present and past participle are both compounded with the aorist of हो to form potentials, thus—1. हलंदो जए "he may be going;" 2. हलिओ जए "he may have gone." There does not appear to be in this language so strong a sense of doubt, or of continuance, in these combinations, as in

H. and P., probably because *ho* plays a more important part in S. than does *ax*, which is represented by only one tense, or *achh*, which is not represented at all.

3. **हचंदो हो** "he was going." This is the present participle of the verb with the preterite of *ho*.

4. **हलिचो हो** "he had gone." The past participle with the same. These two are exactly parallel.

5. **हचंदो ऊंदो** "he will be going." Definite future, made up of present participle with future of *ho*.

6. **हलिचो ऊंदो** "he will have gone." Past future, the past participle with the same. These two are also exactly parallel.

In the passive phase of active verbs there are also six tenses formed by the same process, whereof 2, 4, and 6 are the same as in the active, or, in other words, these two tenses may be construed either actively or passively, according to the structure of the sentence. Trumpp gives them twice over, probably for this reason:

1. **छड़िबो ऊए** "he may be being released." Future participle passive (§ 51) with aorist of *ho*.

3. **छड़िबो हो** "he was being released." The same with preterite of *ho*.

5. **छड़िबो ऊंदो** "he will be being released." The same with future of *ho*.

Gujarati employs *ho* in the following tenses (Taylor, p. 92), mostly dubitative (*chañ* "ascend"):

1. Present participle + aorist, **चडतो होय** "he is ascending." Definite present.

2. The same + future, **चडतो हशे** "he may be ascending." Contingent present.

3. The same + pres. part. indeclinable, **चडतो होत** "(if) he were ascending." Subjunctive present.

A parallel group with past participle:

1. Past p. + aorist, **चड्यो होय** "he has ascended." Definite preterite.

2. The same + future, चढ्यो हगे "he may have ascended." Contingent preterite.

3. The same + pres. p. ind., चढ्यो होत "(if) he had ascended." Subjunctive preterite.

The same combinations may be formed with the p.p. in *e'o*, as चढेलो होय, but there does not seem to be any very great difference in the meaning.

Also a group with future participle; in the form *eduo* (see § 52)—

1. Fut. p. + aorist, चढवानो होय "he is about to ascend." Definite future.

2. The same + future, चढवानो हगे "he may be about to ascend." Contingent future.

3. The same + pres. p. ind., चढवानो होत "(if) he were about to ascend." Subjunctive future.

An example of the use of the last of these tenses is ते मनें कोडवानो होत तो कोडते "If he were going to (or had intended to) release me, he would have released me (long ago)." Three similar tenses are formed by combining the three above parts of the auxiliary with the participle in *ar* or *aro*, which, as in Marathi, is rather the noun of the agent, and will be discussed further on (§ 75).

Compound tenses in Marathi are formed so largely by the auxiliaries derived from *as* and *achh*, that there is comparatively little left for *ho* to do. It is used in the following tenses:

Imperfect, made up of present part. and imperfect of *ho*, as तो येत होता "he was coming."

"Incepto-continuative" imperfect, as the grammar-writers call it, made from the present part. and the preterite of *ho*, as तो बोलता झाला "he began to speak." This is rarely used.

Future preterite formed by the future participle and imperfect of *ho*, as मी लिहिणार होतो "I was to have written," i.e. "It had been arranged that I was to write under certain circumstances." The example given is मी काल आपणा कडे येणार

होतों पर शरीरान्त विरुतो व्याधामुळे घरोंच राहिलो "I was to have called (yepār hotān) on you yesterday, but in my body illness having been (i.e. feeling unwell), I stayed at home."

Future continuative composed of the present participle and future of *ho*, as तो बोलता होईल "he will begin to speak (and go on speaking)."

Imperfect subjunctive, from the subjunctive (future pass. part.) and imperfect of *ho* used in the *Karma prayoga*, as त्वां सांगविं होति "you should have told," lit. "by you to be told it was." This may also be expressed by using पाहिजे "ought," as मला चालने पाहिजे होति "I ought to have walked."

Another preterite phrase is formed by adding the imperfect of *hō* to the neuter genitive of the future pass. part., as मला चालायाचे होति "I had to walk," i.e. "I was obliged to walk."

It will be seen that all these instances of the use of *ho* as an auxiliary are rather elaborate verbal phrases than tenses, ingenious and successful attempts at filling up the gap caused by the loss of a large range of synthetical tenses and participles from the earlier stage of language.

This verb is not used as an auxiliary in O. or B., though it is used as an ancillary to form a pedantic sort of passive with Tatsama p.p. participles, as B. प्रेरित होइते, O. प्रेरित हेवा "to be sent." This, however, forms no part of the actual living languages of either Orissa or Bengal, and may be passed over with just this much notice.

§ 69. *STHĀ.* The Pali and Prakrit forms of the various tenses of this verb were given in § 12, where also the principal parts of the verb in S. G. and O. were given. In Hīndī there is only one part of this verb in use as an auxiliary, namely, the participial tense *thā* "was," sing. था *m.*, थी *f.*; pl. थे *m.*, थीं *f.*¹

¹ I had formerly connected this tense *thā* with G. and Brāj *hats* and been thus led to refer it to *as*; but further research, aided by the dialectic forms brought to light by Kellogg and others, has led me to abandon that view, and to adopt that given in this text, — *diēs diēm dicit*.

This form is, I believe, shortened from **बिबो**, and that again from the Skr. p.p.p. **बिबित**. It is therefore analogous to the shortened forms of other p.p. participles so largely employed in the modern languages. We saw in Vol. II. p. 275, how the genitive postposition *kā* had been evolved by a long and varied process from Skr. *kṛita*; so, also, *gā* in the H. and P. future from *gata*, *bhā* in Old-Hindi from *bhāta*, *lā* and *lā* in M., and other futures from *lagna*; and in exact parallelism to these is *thā* from *sthita*.

The Kananji Hindi has sing. **बो m.**, **बो f.**; pl. **बे m.**, **बो f.**; but the Garhwali still preserves a fuller type in sing. **बयो m.**, **बई f.**; pl. **बया m.** Nearer still to *sthita*, and with incorporation of the Skr. root *as*, so as to make a regular imperfect, is the Nepali "I was," etc.—

Sing. 1. **बियाँ** 2. **बिस्** 3. **बिया**. Pl. 1. **बियुं** 2. **बियौ** 3. **बिया**.

Nepali is not an independent language, but merely a dialect of Hindi. The people who speak it call it *Pārtatiya* or mountain Hindi; it may therefore appropriately be taken into consideration in arguing as to the origin of Hindi forms. **चा** is used in Hindi in two tenses only.

1. With present participle, **बोला चा** "was speaking." Imperfect.

2. With past participle, **बोला चा** "had spoken." Pluperfect.

In P. **सा** is occasionally used, though **सा**, in its numerous forms, is far more common. This verb is also used with a full range of tenses in Sindhi. Trumpp¹ calls it an auxiliary, but I can find no instances of its being used to form tenses of the ordinary neuter or active verb like *as* or *bhā*, and it takes parts of the latter to form its own compound tenses. There are, however, two parts of *sthā* in use as auxiliaries in Sindhi, the former of which **बो** probably = **बिबित**: *nom.*, and the latter

¹ Grammar, p. 303.

ये = स्थिते *loc.* यो agrees with the subject in gender, and is used to form with the aorist an indefinite present—

Sing. 1. हन्तां यो <i>m.</i>	हन्तां यो <i>f.</i>
Pl. 1. हन्तूँ या <i>m.</i>	हन्तूँ यिजं <i>f.</i> , "I go," etc.

This auxiliary differs from all others in the seven languages, in that it may be put *before* the principal verb. ये has the same peculiarity, and is used to make a continuative imperfect with the past participle of the principal verb; it does not vary for gender or person. Thus—

Sing. 1. हन्तिउसि ये 2. हन्तिए ये.

Pl. 1. हन्तिआसी ये, etc., "I used to go," or simply "I was going."

Examples are—

व जालू वार जे नार ये बिहहूँ "Two women were quarrelling (the *vifahyūn*) about a child."

हिहिडा व जणा परे परडेहि ये बिआ "Two men were going (the *bīd*) to a foreign country."¹

Here the auxiliary precedes, and with reference to the suggested origin of this auxiliary from the creative *sthite*, it is more natural that it should do so, for the verb, whether in a simple or compound tense, naturally comes last in the sentence, so that the phrase "I am (in the act or condition of) having gone," is rendered "in having been, I am gone."

G. has also the full verb in all its tenses, and it may apparently be used as an auxiliary just as *ho*. As regards meaning, यहुँ is more powerful than होयुँ; the latter, also, is more powerful than हे. There are thus three grades of substantive verb. हे "he is," is merely the copula; होय "he is, or becomes," is a definite expression of existence; बाय "he remains," is positive and prolonged existence. The distinction,

¹ Stack, Grammar, pp. 134, 135.

as pointed out before, is analogous to that between *ser* and *estar* in Spanish.

बहु forms compound tenses by taking parts of **होवु** as auxiliaries, just as the ordinary verb, thus—

Imperfect **थतो हतो**, as in **ते लडाईं थती हती** "That fight was going on."

Preterite **बयो होय हे**, as in **तेनु मन कटण बयुं होय हे** "His heart has become hard."

Dubitative present **थतो हये**, as in **ते हवे परतावी थतो हये** "Therefore you may now be regretting," and so on.¹

In Oriya this verb plays a somewhat different part. It is there used not as a second auxiliary side by side with *ho*, but to the exclusion of it, and forms, with the participles of the principal verb, a range of well-defined tenses, which cannot be expressed otherwise.

1. With the present participle (*kar* "do") **कर** "doing"—

a. Aorist of *thā* **कर चाए**, *karu thā*, "he is (or was) doing." Continuative present.

b. Preterite „ **कर थिला**, *karu thilā*, "he was doing." Imperfect.

c. Future „ **कर थिब**, *karu thibā*, "he will be doing." Continuative future.

2. With the past participle **करि** "done"—

a. Aorist of *thā* **करि चाए** "he has (usually) done." Habitual preterite.

b. Preterite „ **करि थिला** "he had done." Pluperfect.

c. Future „ **करि थिब** "he will have done." Future past.

The difference between 1a and 2a is very delicate, and rather difficult to seize. *Karu thā* implies that a person habitually

¹ The examples are from Lockey, Grammar, pp. 76, 81.

does an act, and thus that he was doing it at the time mentioned, according to his usual custom. Thus, to a question **से हाटरे बसु चिला** "Was he sitting in the market?" the answer might be **हां सेठि बसु चाए** "Yes, *he always sits there*;" and thus it is implied that he was sitting there at the time referred to. So again, **कविराज बने बेठे चासिला मु भलहेउ चाए** "When the doctor came, *I was getting well*," implying that I had been improving before he came, and continued to do so. *Kari thāe*, on the other hand, literally, "He remains having done," implies a habit which is not necessarily in force at the time referred to, as **भारजा प्रति ताहार बड राग होइ चाए** "He is always very angry with his wife," not implying that he is actually angry at the moment of speaking. It is also used of an action which lasted some time, but has now ceased, as **से समयरे चकर बड कांय होइ चाए** "At that time I had a bad cough," implying that he had a cough which lasted a long while, but from which he has now recovered. Both tenses thus imply continuity, but the former indicates continuity still existing, the latter continuity in past time, which has now ceased.

There are similarly two imperatives formed respectively with the present and past participles—

a. **कर चा** "Remain thou doing."

b. **करि चा** "Remain thou having done."

Here, also, the same fine distinction is drawn as in the other tenses. **गोविंद से काम कर चाउ** "Let Gobind go on doing that work." But, as Hallam well remarks (*Grammar*, p. 153), "The Oriya very often uses a past participle in his mode of thought, where we should use the present."¹ He illustrates this tense

¹ Hallam, *Oriya Grammar*, p. 78.

² I had the advantage of assisting Mr. Hallam when he was writing his grammar, and the definition of this tense was a source of much difficulty and discussion. He consulted a large number of natives, both educated and uneducated, the former as to the rationale, and the latter as to the practice. The latter, without knowing the reason why, often corrected *kari thā* into *kari thā* instinctively, and a large range of observations led to his adopting the definition in which I have followed him.

thus: "Suppose a person should say to another, 'Do that work so,' and the person addressed should reply, 'I have done it so,' and the first speaker should then say, 'Well, always do it so,' or, 'Continue to do it so,' this last phrase would be expressed by this tense." Ex. gr.:—

तुम्हे सेहि काम सेमति कर "Do that work so."

Answer मु सेमति करिहि जे "I have done it so," or, "as (you order) so I have done."

Rejoinder अब्बा सेमति करि बा "Well, always do so," literally, "thus having done, remain."

Here, if we used *karu thā*, we should imply that the person addressed was actually doing the work while we were speaking, while *kari thā* is used when he is not actually working.

Lastly, there is a pair of tenses with the conditional—

कर चाँता "he might be doing," or, "if he were doing."

करि चाँता "he might have done," or, "if he had done."

These explain themselves.

Bengali does not employ the primary form of this auxiliary, but has instead a secondary stem derived from it. This is **चाक्**, which is conjugated throughout in the sense of remaining, and partakes of the combined senses of continuity and doubt peculiar to this verb. There are, strictly speaking, no compound tenses formed by this verb, and the method of its employment is rather that of an ancillary verb.

§ 70. *PA.* This root takes the form **चा**, and is used in H. P. M., occasionally in G. and B., and usually in O., to form the passive voice. G. having a passive intransitive of its own (§ 24), does not often have recourse to this verb, and S. having a regularly derived synthetical passive (§ 25), dispenses with it altogether. When used as in H. P. and M. to form a passive,

it is compounded with the past participle of the principal verb, as (*dekh* "see")—

H. Aorist **देखा जाए** "he is seen."

P. दिठा जावे.

Imperfect **देखा जाओ** "he is seen."

दिठा जावो.

Future **देखा जाएगा** "he will be seen."

दिठा जावेगा.

So also in M. and O. The various tenses of **जा** are formed in the same manner as other verbs. When compounded with any other part of the verb than the past participle, *jā* is ancillary, and is used in various other senses.

There has been, in former times, much discussion about this form of the passive, some writers declaring it inelegant, others considering it unusual and opposed to the genius of the Indian languages, while some have even gone so far as to deny its existence altogether. The most discerning inquirers, however, admit it as a form in actual use, though they point out certain circumstances which obviate the necessity for recourse to it. Such are the existence of a large class of neuter verbs, the practice of changing the object into a subject, and figurative expressions like "to eat a beating," *mār khānā*, "it comes into seeing," *dekhne men ātā*, and the like. Speaking as one who has lived in daily and hourly intercourse with natives of India for nearly twenty years, I can testify to the use of this form by speakers of Hindi, Panjabi, Bengali, and Oriya frequently, and even habitually. Idiomatically, many other ways of expressing the passive idea undoubtedly exist, and in some languages, as Bengali and Marathi, *ho* may be used to form a passive. There are phrases and occasions, however, where it would be more idiomatic to use the passive *jā* than any other construction, and we may conclude that, though its use is somewhat restricted, it is erroneous to describe it as always inelegant and unidiomatic, and still more so to deny its existence altogether.

§ 71. By using the expression "compound tense" in a wider sense than that in which it has been employed in the former part of this chapter, we may legitimately include under it that large and varied class of phrases in which two verbal stems are used together to express one idea. In such a combination the first verb remains unchanged, and all the work of conjugation is performed by the second, which acts, so to speak, as a hand-maid to the first. For this second verb I have thought it advisable to employ the term "ancillary," as expressing more clearly than any other that occurs to me, the actual relation between the two. The ancillary verb differs from the auxiliary, in that the former runs through all the tenses of the verb, and the principal verb on which it waits remains unchanged, while the latter only forms certain specified tenses in composition with several parts of the principal verb, being attached now to the present, now to the past or future participle. Thus, the tenses formed by the aid of auxiliaries are integral portions of the primary simple verb. In the case of the ancillary, on the other hand, it, together with the principal verb, forms, in fact, a new verb, which, though consisting of two elements, must be regarded for conjugational purposes as essentially one throughout. Thus, the elements *mār* "strike," and *dāl* "throw," combine into the compound verb *mār dālā* "to kill," which is conjugated through the whole range of simple, participial, and compound tenses of *dālā*, *mār* remaining unchanged.

Grammarians have invented many strange names for these verbs with ancillaries, calling them Frequentatives, Inceptives, Permissives, Acquisitives, and many other -ives. It would, perhaps, be simpler not to seek to invent names for all, or any of them, but merely to note the combinations that exist with their meanings. Indeed, it is hardly possible to group them into classes, because, in practice, some ancillaries may be combined with any verb in the language, while others again

can only be combined with one or two specific verbs. Moreover, there are exceptions to the general rule that a verb with an ancillary runs through the whole range of tenses, for some ancillaries are only employed in one tense, or in two tenses; thus *lag*, in Hindi, is usually only employed in the past tense, as *kahne lagā* "he began to say." Some again are formed in only one tense in one language, while they may be used in several tenses in another language.

The subject is a very wide one, for the number of primary verbal stems in the seven languages being small, they are driven to express complicated ideas by combining two of them together. They have also lost the facility of expressing such ideas which is possessed by most original Aryan languages, through the *upasargas*, or prepositions, and can no longer develope from one simple root a variety of meanings by prefixing *pra*, *abhi*, *upa*, or *sam*. Under such circumstances they have taken a number of their commonest verbs and tacked them on to other verbs, in order to imply that the action expressed by the principal verb is performed under the conditions expressed by the added, or, as we may call it, the ancillary verb. As might be expected, however, while the principle is the same in all seven languages, the method of its application, and the particular ancillaries used, differ, to some extent, in the several languages. It will be better to take each ancillary separately, exhibiting the general effect of each as combined with different parts of the principal verb.

§ 72. Ancillaries may be attached not only to other verbs, but even to themselves; the verb to which they are attached is placed in the conjunctive participle, and remains in that form throughout. Another class, however, exists, in which the principal verb is in the infinitive mood, which, as Kellogg justly observes, is not strictly a case of a compound verb, but

that of one verb governing another, and in this view would more properly be regarded as a matter of syntax. Inasmuch, however, as certain well-known and constantly-used phrases of this kind have grown up in all the languages, whose use, to a great extent, supplies the want of regular tenses, it will be better to give them all here, so as to complete the survey of the modern verb in all its aspects. It must be noted, also, that in Hindi, and occasionally in P. M. and G., the conjunctive participle loses its final syllable, and thus appears in the form of the simple stem; that it is the participle, and not the stem, is shown by the analogy of the other languages, and by isolated instances of the preservation of the participial form even in Hindi.

1. *दे* "give," and *ले* "take," are in H. widely used as ancillaries, and the meanings which are obtained by their use are somewhat varied. In a general way, it may be said that *de* is added to verbs to express the idea that the action passes away from the subject towards the object, while *le* implies that the action proceeds towards the subject. Thus *de* can, strictly speaking, be used only with actives and causals; and in some cases adds so little to the meaning of the principal verb, that it appears to be a mere expletive. With active verbs examples are—

फेंकना "to throw,"

फेंक देना "to throw away."

निकालना "to take out,"

निकाल देना "to turn out, eject."

Thus घर से धान निकाला "he took the rice out of the house," where the idea is, that the man being outside went in and brought out the rice; but in मुझ को घर से निकाल दिया है "he has turned me out of the house," it would be understood that the speaker had been forcibly ejected.

रखना "to put,"

रख देना "to put away, lay by."

मारना "to strike,"

मार देना "to beat off."

With causals it is used very frequently, and with scarcely any perceptible change of meaning—

समझाना and समझा देना "to explain."

गिराना .. गिरा देना "to cause to fall, or to throw down,"

बैठाना .. बैठा देना "to seat, or to put into a seat."

Perhaps one can sometimes trace in the form with दे a sense of the action having been done with some force, while in the simple verb the idea of force is wanting, but in the majority of instances no such distinction could be traced. There is occasionally some additional emphasis, as in the common phrases दे दो "give," and ले लो "take," where the ancillary is added to itself, but these expressions belong more particularly to the Urdu side of the language.

When attached to the infinitive of another verb, दे implies permission, as जाने दो "let (him) go," हम को बैठने दीजिये "please let me sit down."

P. uses दे in the same way as H., but it does not appear to be so used in Sindhi. In G. it is added to the conjunctive participle of another verb to give emphasis, it also expresses impatience, but, in both cases, like H., with a general idea of the action being from the speaker towards the object. Thus तबड़ु "to abandon," तबी देखो "let (it) alone!" "let go!" नाखड़ु "to throw," नाखी देखो "throw (it) away!" But as in H., with the infinitive it implies permission, जवु "to go," जवा देवु "to allow to go," पढ़वा देवु "to let fall," लिखवा देवु "to permit to write."

M. has the same usage of दे; when added to the conjunctive participle it has the same senses as in H., as लिखन देखे "to write," खणून देखे "to dig;" in both of which phrases there is only a little additional emphasis implied, or perhaps an idea of finishing and having done with, as "write it off," "dig it up and have done with it," as in टाकून दे "throw it away."

With the infinitive it implies permission, as मना जाऊं दे "suffer me to go," बारा लिख देत नाही "the wind will not let me write."

Precisely similar is the usage in O. and B., as O. फिटार दिय "break it open," literally, "having caused to open, give;" but with the infinitive मते आसिवाकु देला नाही "he would not let me come."

Bengali uses this verb with the conjunctive to imply completeness or emphasis, as पुस्तक देखिया दियाकि "I have seen the book," that is, "I have examined or perused it." With the infinitive it, like the rest, signifies permission, as आमाके पढ़िते दिजेन ना "They did not allow me to read."

2. ले is in all respects used similarly to दे, but with exactly the opposite meaning, namely, that of the action being directed towards the speaker, or the subject. In this construction its meaning is often very slightly different from that of the simple verb. Thus we may say, पीता "he drinks," and पी लेता "he drinks up," or "drinks down," in the latter case implying a more complete action. With causals it is used when the action is towards the subject, as राम को हमारे पास बुला लो "call Ram to me," where the simple verb बुलाना merely means "to call." The distinction between the use of *de* and *le* is well shown when added to रखना "to put;" thus रख लो means "put it away (for your own use)," but रख दो "put it down (and leave it)." There is, as Kellogg has shown, a sense of appropriating a thing to oneself involved in *le*.

P. follows the usage of H., but has less frequent recourse to this ancillary. S. uses निचणु, which is the same word as *le*, in the sense of "taking away," which in H. is expressed by ले जाना, as in सांदोर समुंद्र जे निहोडे निचा "In crossing the ocean they were forcibly carried off" (Trumpp, p. 340). In another instance, however, the meaning is more that of simple taking, माटार निचणु "to bring back," literally, "having caused to return, to take."

In G., the meaning is the same as in H., acquisition, or action towards the speaker or subject, as in समजो लेवु "to understand," i.e. "to make oneself acquainted with," शिखी लेखो "learn (this)," i.e. "acquire this knowledge."

M., as before remarked, uses ले, where its sisters have ले. It is used freely in all combinations involving the idea of taking, and seems, like many other ancillaries, to be often used pleonastically. Perhaps, however, we ought to make allowance for the trains of thought which, in the minds of native speakers, underlie the expressions which they use, and, in this view, to admit that an idea of taking may be present to their minds in expressions which, in our mode of thought, would not involve such an idea. It is difficult to get a native to concentrate his mind upon what he is actually saying or doing, he will always mix up with his present speech strange undercurrents of nebulous fancies as to what he did or said last, or what he is going to do or say next, and this habit influences his speech and produces phrases which, to the practical European mind, seem unnecessary and confusing. Thus Molesworth (s.v. ले) reckons as pleonastic the use of this ancillary in लवकर स्नान करून घ्या "quickly having bathed take." Here the word "take" is probably inserted from a feeling that the person addressed is wanted again after he has had his bath. Thus, if you were about to send a man on an errand, and he asked (as a native usually does) to be allowed to bathe and eat first, you might use the above sentence. In Hindi one would use आओ "to come," in the same way, as झट अमनान करके आओ. If you did not use some ancillary or other, it might be understood that you did not want the man's services after he had bathed. In another phrase पोरनि हात पोळऊन घेतला "The child burnt his hand," judging from the analogy of similar phrases in the cognate languages, I feel that if घेतला were not used, the person addressed would be capable of supposing that

the child burnt the whole of his hand up, whereas, what is really meant is, that the child got a burn on his hand.

The O. verb **लेना** is used as in H., as **कानन पत्र बुझि लेवुं** "I will take charge of the papers and accounts," where he means that he will take them and study them, it is literally "having understood I will take."

So also with B. **लखी**, as **चिट्ठी पढाइया लखेन** "they took and read the letter."

3. **आ** "come," **जा** "go," as also the cognate stems in the other languages, when used as ancillaries, stand to each other in the same contrast as *le* and *de*. II. **आ** is not very widely used, and principally with neuter verbs; it implies doing a thing and coming back after having done, and thus has a certain sense of completing an action. Thus **बनना** "to be made," **बन आना**, or sometimes colloquially, **बने आना** "to be completely done, successfully accomplished," **खेत को देख आया हूँ** "Having seen the field, I am come," i.e. "I have been and looked at the field," and he implies, "I have examined it, and am now ready to make terms for the rent of it." The usage is similar in P., though rarely heard.

The equivalent of *à* in S. is **अचणु**, pres. part. **ईंदो** "coming," p.p. **आयो** "come." It is used with the infinitive to mean beginning to do, and this usage is thus different from that of H. and P. Thus **बसणु अचणु** "to come to rain," or, as we should say, "to come on to rain," as—

विजुं बसणु आईयुं मारंगु वडिओ सेव ।

"The lightnings have begun to rain, the rainy season has ascended (his) couch."—Trumpp, p. 344.

G. **आव** is used in the sense of coming into action, or into use, becoming, and is used with the present participle, as **बनइतुं आवतुं** "to become spoilt." But far more frequently **आवी**, the conjunctive participle, takes other ancillaries after it.

ये in M. is also used in a potential sense, but generally, as

far as I can learn, with the indeclinable form of the present participle, and with the subject in the dative case; thus it literally means "to me, to you, etc., it comes to do," as **मला जाता येतो** "I can go," lit. "to me going comes." Similar to this is the use of *śudā* in H. as an independent verb, chiefly in negative sentences, as **उसको लिखापढी आती नहीं** "He does not know how to read and write," lit. "To him reading-writing comes not." So also in O. and B.

4. **जा** "go," is used more frequently, and in a wider sense than *ā*. In H. it implies completeness or finality, as **खाना** "eat," **खा जाना** "eat up," **चले जाना** "go away," where the principal verb preserves the termination of the conjunctive participle. In the familiar compound **हो जाना** "to become," the ancillary adds a little distinctness to the idea of the principal. So, also, in **कह**, or **कहे**, **जाना**; thus, if a man is hesitating or fumbling over a story or message, you say **कहे जाओ**, i.e. "Speak out!" or "Out with it!"

When added to neuter verbs (especially the double verbs mentioned in § 18), it seems to add no special meaning, and one may say **टूटना** or **टूट जाना** "to be broken;" **मिलना** or **मिल जाना** "to meet" or "be obtained." Colloquially, and especially in the past tense, the form with *jānā* is far more commonly heard than that without it; thus, for "it is broken," one hears **टूट गया** twenty times for once of **टूटा**. This practice seems to confirm what was conjecturally advanced in § 26, concerning the origin of the use of **जाना** to form a passive, as compared with the Sindhi passive in *jā*.

Sindhi uses, in a similar way, its stem **वज्जु** "go" (impt. **वज्जु**, p.p. **विज्जो**, pres. p. **वोदो**, **वेदो**), from Skr. $\sqrt{\text{वज्ज}}$, Pr. **वञ्च**. Thus, **वठो वज्जु** "to take off," **मरो वज्जु** "to be dead," i.e. "to go, having died." **चढी वज्जु** "to ascend," i.e. "to go, having ascended." There is also a phrase in which it is added to **खण्णु** "to lift," as **खणी वज्जु** "be off!" "go away!" The

general effect of this ancillary may thus be taken to be that of completeness. Trumpp gives the following examples (p. 340) :

सो बड़िहि बड़ो तड़िहि मरी बिबो "When he was grown up, then he died" (say "died off"). सूहनि जो सलाह बटु त वोरि बंधे बजे "Take the advice of the pilots that thou mayst *pass over* (or pass through and escape from) the flood-tide."

Completion or finality is also indicated by *jā* in G., attached to the conjunctive participle, as in H. and P.; when added to the present participle, it implies continuance, as लखतो आ "go on writing."

In M. B. and O., this stem is not used as an ancillary.

३. सक "be able," is attached to the stem-form or apocopated conjunctive participle of all verbs in H. to imply power, as चल सकता "he is able to walk," कर सकेगा "he will be able to do." It is rarely, if ever, used alone in correct speaking, though one sometimes, in the eastern Hindi area, hears such an expression as हम सकेने नहीं "I shall not be able." This, however, is probably to be regarded merely as an elliptical phrase for हम कर सकेने नहीं "I shall not be able to do."

In P. also it is used always as an ancillary, as वाच सकता है "he is able to read," and is conjugated throughout the verb. In S. the corresponding verb सघणु is used with the conjunctive participle in the same sense, as करे सघणु "to be able to do."

In all these three languages this verb may be added to the inflected form of the infinitive, though in H. and P. this construction is avoided by those who desire to speak elegantly. Still one often hears it, as जाने सकता नहीं "he cannot go," and in the eastern Hindi area it is very common, as well as in the Urdu spoken by Musulmans in all parts of India. Among these latter, indeed, *karne saktā* is much commoner than *kar saktā*.

It is used in G. as in H., and may also be used in M., but in this latter language the existence of another method of expressing potentiality (§ 54) renders its use less frequent.

B. and O. do not know this ancillary. In its place they use **पार** in B. with the infinitive, as **करिते पारि** "I can do," in O. with the past participle, and generally with the future of the ancillary, as **करि पारिबि** "I shall be able to do," where we should use the present. Thus in asking, "Can you tell me his name?" one would say **ताहार नाम कहि पारिब**, literally, "Shall you be able to say his name?"

6. **लग्न** "begin" (see § 12). In H. and P. with the infinitive, as **देखने लगता** "he began to see." The ancillary is mostly used in the preterite, indeed almost exclusively so; for **देखने लगता** "he begins to see," would be inelegant, and, I believe, quite unidiomatic. S. uses the same construction, as **रुझणु लगिबो** "he began to cry." So also G., as **मारवा लागवु** "to begin to strike," and M. with infinitive of the principal verb, as **मार लागला** "he began to strike," but also with the dative of the future passive participle, as **करावयास लागला** "he began to do." B. the same, as **करिते लागिल** "he began to do," O. **करिवाकु लागिला**.

7. **चुक** "fail," hence "leave off, cease to do." In H. added to the conjunctive part, in the sense of having already finished, as **खा चुका** "he has done eating," **जब खा चुकेगा** "when he shall have done eating." P. does not use this verb in this sense. S. uses **चुक**, as in **करे चुकणु** "to have finished doing;" but it has also other ways of expressing this idea, as by **रहणु** "to remain," **वठणु** "to take," **निभणु** "to be ended," **बसि करणु** *id.* G. **करी चुकवु** "to have finished doing." B. the same, as **दिया चुकियाहि** "I have done giving." O. uses **मार**, as **खाइ मारिलि** "I have done eating," **से कर्म होइ मारिला** "That business is quite finished." B. also uses **फेंल** "throw," in this sense, as **बलिधा फेलिलेन** "They have done speaking."

8. Marathi has two verbs not used in the other languages, **ढेवणें** and **टाकणें**, which are employed in many senses, and the distinction between which appears to be, at times, hard to draw.

The illustrations given, however, show that each word is faithful to its original meaning; ठेक्कें = स्थापन, and consequently means "put," while टाकणें = त्याग, and means "throw away." These two words stand to each other in the same contrast as ले and दे in H., thus हें कापड घडी कडून ठेव "Fold up this cloth and lay it by," ती माय बांधून ठेव "Tie up that cow" (having tied, put), but त्याची पोथी त्यास देऊन टाक "Give him up his book" (i.e. "give it him and let him go"), ते झाड उपटून टाक "Root up that tree" (i.e. "uproot and throw away").

9. कर "do," is used in the sense of repetition or continuance, in H. with the perfect part., as आया करता "he always comes," तुम क्यों ऐसा किया करते हो "Why do you keep on doing so?" In Sindhi this sense is obtained by repeating the verb in the required tense after itself in the conjunctive participle, as सोई सो हरफ पढ़िओई थो पढ़ा "Even that, that letter I read over and over again" (Trumpp, p. 343), where the participle has the emphatic *i* added to it. G., like H., uses करतुं with the inflected form of the p.p., as कया करतुं "to keep on doing," वाचा करतुं "to keep on reading." The various uses of *karat* in forming compounds both with nouns and verbs are so numerous and peculiar, that they cannot be inserted here, but must be sought for in the dictionaries of the respective languages, and, still better, by those who have the opportunity, from the mouth of the people.

10. रह "remain," differs from कर, in that it implies continuance in a state, while कर implies repetition of an action. In H. and P., with the conjunctive participle, as बैठ रहना "to remain sitting," खेल रहते हैं "They are going on with their play;" also with the present participle, as नदी बहती दहती "The river flows on continually," *labitur et labitur*. There is a curious phrase in Hindi, जाता रहना (literally, "to remain going") used for "to be lost and gone," as an euphemism for death; thus मेरा बाप जाता रहा है "My father is dead (has passed

away);" also for loss of things, as उसका सब धन जाता रहा "All his property is gone." I do not find this idiom in the sister languages.

Sindhi uses रहणु in the sense of continuance, as बीदो रहंदो बिर्ची मिसिर शाम "He goes on travelling in fatigue from Egypt and Syria" (Trumpp, p. 344). The same sense is produced by वतणु "to turn, wander," as बीजलु घोडा चारीदो बते "Bijalu goes on grazing the horses" (*ib.*). In both cases the principal verb is in the present participle.

G. employs रह, which is its version of रह with conjunctive participle for continuance, as करी रहेवु "to remain doing," and with the present participle in the sense of completion, as चढतो रहेहे "he ascends completely."

This ancillary is truer to its original meaning in M., where it implies leaving off, refraining, with the genitive of the future participle, as मारायाचा राहिला "he left off beating." This sense recalls that of Skr. रहित = "deprived of."

B. and O. do not use this verb as an ancillary. B. substitutes for it चाक, and O. चा.

11. पड "fall," implies generally accident, as in II. जानना "to know," जान पडना "to be found out" (*i.e.* "to be known by an accident"), as उस का दोष जो जान पडे तो हम भी नहीं बचेगे "If his fault should be found out, then we, too, shall not escape." So also in G., as पळववु "to stick to," पळमी पडवु "to become attached to, to get caught in." M. uses it with the dative of the future participle, as तू जरयस झालास म्हणून मला खेपा घालायाम पडते "On account of your being attacked with fever, I have to waste my time in travelling," literally, "to me the throwing away of journeys falls." Here the sense is that of necessity, as also in बायको झेली तर घर बांधायाम पडेल "If you marry a wife, you will have to set up house." The same idea is expressed in II. by adding पड to the infinitive, as तुम को जाने पडेगा "You will have to go (whether

you like it or not);" so also in B. जाइते पड़िन, where it also implies subjection, or falling into a state, as धरा पड़िन "he got caught," as सुन्दर पड़ेछे धरा गुनि बिद्या पड़े धरा "Hearing that Sundar had been caught, Bidya falls to the ground" (Bbārat B.-S. 359, where there is a pun on the double use of the phrase), घुनिया पड़िन "he fell asleep," मारा पड़िन "he caught a thrashing." The same in O., as धरा पड़िहि (for पड़ि अहि) "he has been caught."

This verb sometimes precedes the principal verb in the sense of doing a thing accidentally, and is then put in the past participle. In this sense I would explain the sentence quoted by Kellogg (p. 195) एक बाघ पड़ा फिरता था "A tiger happened to be prowling about," literally, "a tiger fallen was prowling," the word "fallen" being used to express accidentally arriving. In P. the verb takes the form पढ़्या (= पतन), and the p.p. is पिछा; thus they say उह पिछा खांदा है "He is engaged in eating," where the sense is rather that of continuance; when put after the principal verb, it implies setting to work at a thing, as तुरना "to walk," तुर पढ़्या "to set out on a journey." So also in Sindhi, where the verb has the form पवणु, the conjunctive participle पड़े or पेदे precedes another verb with the sense of emphasis or energy, as वसर सो विहार बो पड़े पुरायो न थिए "Buy those goods which do not grow old" (Trumpp, p. 341); here पड़े न थिए means rather "do not happen to become," "are not likely to become." खणी, the conjunctive of खणु "to lift," is used in the same way, but the two verbs appear to be contrasted much as *le* and *de* in H., *khat* being used where activity, *pat* where receptiveness or accident is implied. Thus खणी लिखणु "to set to work writing," खणी बजाए "he sets himself to play (music)." The past participle पिछो is also prefixed with much the same effect, as तहँ में तजिला खिंखिनि बनि पिछा थिचनि "In it flashes like lightnings are found" (or "take place," or "appear;" Trumpp, *ib.*).

12. The above are the principal, if not the whole, of the

ancillaries in general use. There are, indeed, a few others, but their use is restricted to one or other of the languages. Thus **पाना** "to find," is used with an infinitive in Hindi in the sense of being able, or being permitted, to do a thing. The verb in this construction is neuter, as **मैं उसको देखने नहीं पाया** "I was not allowed to see him," **तुम घर के भीतर जाने नहीं पाओगे** "You will not be permitted to go inside the house;" so also in B. **पड़ते पाद ना** "I am not able to read," that is, not because I do not know how to read, but because I cannot find leisure, or cannot get the book.

डालना "to throw," is used in H. with verbs implying injury to show that force also was used, as—

मारना "to strike,"	मार डालना "to kill."
तोड़ना "to break,"	तोड़ डालना "to dash in pieces."
काटना "to cut,"	काट डालना "to cut down, hack, hew."

There are, besides, numerous combinations of two verbs, in which the latter of the two does all the work, the former remaining unchanged; but for these the reader is referred to the Dictionary, though, as far as I have seen, Molesworth's Marathi dictionary is the only one where they will be found fully treated.

CHAPTER V.

OTHER VERBAL FORMS.

CONTENTS.—§ 73. THE CONJUNCTIVE PARTICIPLE.—§ 74. THE INFINITIVE.
§ 75. THE AORST.—§ 76. SINDHI VERBS WITH PRONOMINAL SUFFIXES.—
§ 77. CONJUGATION OF STEMS ENDING IN VOWELS IN HINDI, PARSARI, AND
SINDHI.—§ 78. THE SAME IN MARATHI.—§ 79. THE SAME IN BANGALI AND
ORISSA.

§ 73. THE participles of the present, past, and future, being used in the formation of tenses, it has been found necessary to depart from the natural order of the verb, and to discuss them in Chapter III. There remains, however, a very widely used and important participle, which is not employed to form a tense. From the fact that it is used to connect one clause with another, and thus helps the native speaker or writer to build up those interminable sentences of which he is so fond, it has been called, very appropriately, the *Conjunctive Participle*. It implies "having done," and the sense of the clause in which it is used remains incomplete until another clause containing a finite verb is added; thus, instead of saying, "Next morning he woke and arose, bathed, ate, dressed, collected his goods, loaded them on his camel, bade farewell to his friend, and started on his journey," the Indian languages would say, "Having woken, having risen, having bathed, having eaten, having dressed, having collected his goods, having loaded them on his camel, having bidden farewell to his friend, having started on his journey, he went."

Sanskrit has two forms of this participle, one in **त्वा**, as **भूत्वा** "having been," the other in **य**, as **संभूय** "having met." Each

of these forms has left descendants in the modern languages, and although the form in *ya* is, in classical Sanskrit, restricted, for the most part, to compound verbs, yet this peculiarity has been overlooked in the spoken languages, and simple verbs, as well as compound ones, are treated as having this form also.

Thus in Prakrit we find **शुणिषा** = Skr. **श्रुत्वा** "having heard," as well as **निष्क्रमिष** = **निष्क्रम्य** "having gone out." So also **ददष** = **दत्त्वा** "having given," **चोरिष** = **चोरयित्वा** "having stolen," **गदुष** = **गत्वा** "having gone," **सिंचिष** = **सिञ्चत्वा** "having sprinkled," **गृह्णिष** = **गृहीत्वा** "having taken."

In Old-Hindi this participle ends in *i*, as **करि** "having done," **चलि** "having gone," which is apparently the Prakrit form with loss of the final *a*, thus—

सुनि कगर नृपराज प्रयु ॥ भौ आनन्द सुभार ॥

"Having heard the paper, King Prithiraj was glad, being pleased."

—Pr. R. ii. 62.

Chand, however, in his more archaic passages, uses a form in *ya*, and one in *nya*, as—

भुगति भूमि किय क्वार ॥

वेद सिंचिय जल पूरन ॥

बीय सबय लय मध्य ॥

म्यान खंक्र सन्नूरन ॥

"Taking possession of the earth, like a garden plot,
Irrigating it with the fullness of the Veda, as with water,
Having placed good seed in its midst,
Up sprung the shoot of knowledge."—Pr. R. i. 4.

Here **किय** "having made," and **भुगति किय** = mod. **भोग करले** "having made (or taken) possession," **सिंचिय** "having watered," **लय** = **करय** "having placed."

Mediæval Hindi has regularly the form ending in *r*, as **राम वचन मुहु गूढ सुनि** "Having heard the gentle mystic speech of Rama" (*Tulsī, Rām. Bālk.* 113), **पंडित भूले पडि गुनवेदा**। "Sages having read the Veda erred as to its qualities" (*Kabir, Rām.*

34, 1), भक्ति विमुख जो धर्म सु सब अधर्म करि गायो ॥ "The religion that is opposed to devotion (bhakti), all that *having made* (i.e. having declared), irreligion he sang" (Bhaktamāl, Māl. 30).

From the habitual neglect of final short vowels, it results that this participle often appears in the form of the bare stem, as in the verbs with ancillaries given above, and this form, appearing to be not sufficiently distinct, a secondary form has arisen, which is now the ordinary one in modern Hindi. This consists of adding के, कर, करके, करकर, and even करकरके to the stem, namely, the conjunctive participle of करना "to do;" as देख कर "having seen," जाकर "having gone." The first of these forms के is softened from कै, which, again, is from करि, the older form of the conjunctive part. of करना, and is used in the mediæval poets and in Braj and the rustic dialects to this day. Thus Kabir बड़ विधि के बिच बनाइके हरि रख्यो कोड़ा राम ॥ "Having made many kinds of appearances (māyā), Hari has arranged the sport and pastime (of the world);" Hīndola, 16). It having thus become customary to add the participle of कर to all verbs, it has been added to कर itself, thus making करके and करकर, and this reduplicated form again is added to other verbs. In all the dialects we find such forms as मारिके, मारके, मार, मारि, and even apocopated as Garhwali मारिक and मारीक "having beaten." Kumaoni has a curious compound form मारिवेर "having beaten," which is probably the old form मारि with वेर "time" (Skr. वेला), literally, "at the time of beating."

In the case of the common verb हो, the conjunctive participle, like the future, takes in Old-Hindi the forms होइ and है, especially the latter, as गुरु भक्त एक न्यारो नही है सके । "Guru-bhakts alone could not remain apart" (seek ancillary with conjunctive of हो = "could be;" Bhaktamāl, 116, 1), रजनी अंध कूप है जाए "The night becomes as dark as a well" (Kabir, Ram. 16, 4), मानुस बड़े बड़े है आये "Very great men came" (lit. "having become very great;" ib. 17, 6).

P. is the same as H., and with the latter closely agrees O., which forms this participle by short *i*, as देखि "having seen." This form also appearing too indefinite, in ordinary conversation they add करि, often pronounced किरि, as देखिकरि "having seen." O. has also another, and in the classical speech the only admissible, form in *ile*, as मारिले "having beaten," which is also used in B., and in both appears to be the old locative case of the past participle, and is thus literally "in having beaten." The old form of the locative case having in O. fallen into disuse, the same has taken place in the participle; thus arise the forms देखिलारे "in having seen," and देखिलार "from having seen," which are respectively the locative and ablative, formed after the modern fashion by adding ठारे and ठार, the initial syllable of which is rejected (Vol. II. p. 274).

B. has, besides the form in *ile*, one in *iyā*, which approaches closer to the Prakrit, as पडिया "having fallen," बसिया "having sat," धरिया "having seized." This latter form is that which is used to string together long sentences, in preference to the form in *ile*, which is used more in short sentences. Thus Bhārat—

आन छले पुनः चाहि फिरिया फिरिया ॥

पिंजरैर पाणि मत बेढाय घुरिया ॥

"Another craftily looks, repeatedly turning round,
Like a bird in a cage walks round and round."

—Bhāṭa-S. 246.

literally, "having turned, having turned, looks," and "having twisted round, walks."

S. has four forms for this participle. Neuter verbs take the ending *i*, as बरो "having returned;" active and causal verbs have *e*, as मले "having rubbed," both of which correspond to the Pr. ending *ia*. Less widely used is a form in *te* or *yo*, as मोदयो "having returned," धोयो "having washed," which is identical with the p.p.p. Thirdly, the inserted *ya* of Prakrit reappears here, as from चणायु "to lift," चखिले "having lifted."

Lastly, S. follows the example of H., and adds करे, the conjunctive of करणु "to do," as वरी करे "having returned."

G. resembles S., having its conjunctive in *i*, as होई "having become." Ordinarily it puts this participle in the objective case, adding the postposition ने, often dropping the anuswara, as करीने or करीने "having done," देईने "having given." As G. makes no distinction between *i* and *ī*, this is often written with short *i*, as देईने.

M. stands quite alone, having its conjunctive in ऊन, as जाऊन "having gone," होऊन "having been." This is sometimes written ओन, and in the poets takes an increment, and appears as ऊनियाँ, ओनियाँ, as तुम्हापाशीं अम्ही येऊनियाँ काय ॥ (Tuk. Abh. 1888) "What is the good of my going to you?" (literally, "I near you *having come*, what?") देखोनियाँ वस्त्रे भूषणचिं जण ॥ तात्काळ मरण येते मज । "Having seen men in fine clothes and ornaments, I am ready to die at once" (*ib.*).

This form is the old Maharashtri Pr. form in ऊय, shortened from तूय, Skr. खाने, accusative of खा (Lassen, p. 367), and has undergone singularly little change. I see in this a confirmation of the belief that modern Marathi is really the representative of the Maharashtri Prakrit, for it is only in Maharashtri that the conjunctive in *ūya*, *tūya*, is found. All the prose dialects without distinction take forms of the conjunctive derived from the Skr. *-ya*; this consideration seems to be fatal to the theory (Trumpp, p. 283; V. Taylor, p. 114, § 256) which would derive the G. conjunctive in *īa* from M. *ūya*. Setting aside the absence of any analogy for a change from *ū* to *ī* in such a connection, there is abundant evidence that G. is, by origin, a Rajput dialect belonging to that large group of dialects which we roughly class under the name of Hindi, and Śastri Vrajlāl (G. Bh. It. p. 3) points out the great gulf that exists between G. and M., as also the close connection of G. with the northern dialects. We have therefore strong reasons for not looking to M. for the origin of any G. form. The

latter has, like the rest of the eastern Hindi group, Sauraseni for its parent, and the form in *-lus*, when compared with that in *l* in the same language, points clearly to the Sauraseni conjunctive in *is* with a modern case-postposition *ne* or *ney* added.

§ 74. The Infinitive is, in all the languages, a verbal noun * declined throughout all the cases of the noun. Its numerous forms may all be grouped under two general types, which may be called the *Ba*, and the *Na* types respectively.

The *Ba* type is found in the rustic dialects of Hindi, in Bangali, Oriya, and Gujarati, and is declined as a noun. It occurs in the oldest Hindi poems. Chand has it in—

जो बिजंब करि रहै । तो ताहि हनिबे को आवै ॥

"If any one makes delay, he comes to strike him."—Pr. R. i. 198.

उठि लरिबे को धायौ ॥

"Rising up, rushed to fight."—*ib.* i. 254.

It takes the junction-vowel *i*, and in these passages is in the accusative case. It may be rendered "to or for the purpose of fighting." This form does not once occur in the Ramaini (रमैनी) of Kahir, and only rarely in his other works. I have noted तरिबे की "to cross over," चलेबो (चलावबो) "to urge on," in the Rekhta. It is more common in Braj, and in Tulsī Das's Ramāyan, where, besides the form with junction-vowel *i*, as तोरिबे "to break," occurs also a shorter form in *ab*, as फिरब "to return." In the dialects (Kellogg, p. 241) occur the following (*mār* "strike") :—

Braj मारिबौ. East Rajput मारबो. West Rajp. *id.* Old-Pūrbī मारब, Avadhi, and Bihari *id.*

In Gujarati, this is the only form of the infinitive. It is declined as an adjective for all three genders, thus—

Sing. लावबो *m.*, लावबी *f.*, लावबु *n.*

Pl. लाववा *m.*, लाववी *f.*, लाववा *n.* "to bring" or "the act of bringing."

and agrees with the object, as mentioned in § 52, where it is used to constitute a tense. In the neuter singular it performs the functions of a simple infinitive, as गावुं "to sing," करवुं "to do."

In Oriya it is the ordinary infinitive, as बसिबा "to sit," and, though without gender, is declined for case, as—

Gen. बसिबार "of sitting,"	}	एहि बसिबार जगना "this is a place of sitting," i.e. "a fit place to sit in."
Loc. बसिबारे "in sitting,"		बसिबारे किछि हेब नही "in sitting nothing will become," i.e. "you will do no good by sitting still."
Acc. बसिबाकु "to or for sitting,"	}	बसिबाकु हेब "for sitting it will become," i.e. "you will have to, or must, sit."
		देखिबाकु आसिला "he came to see."
Abl. बसिबार "from sitting,"	}	सेठि बसिबार सरदी जागिब "from sitting there a chill will attack," i.e. "if you sit there, you will catch cold."

Bengali does not use this form as its ordinary infinitive, having utilized for that purpose the locative of the present participle, as होइते "to be" (lit. "in being"), चाकिते "to remain," जाइते "to go;" but it is used in the genitive case to form a sort of gerund or verbal noun, as बीज बपिवार काल आछे "It is the time of sowing, or for sowing, seed." More common still is its employment with जन्ने, कारण or निमित्ते "for the sake of," as देखिवार जन्ने "for the sake of seeing," करिवार निमित्ते "for the sake of doing."

The infinitive of the Gipsies ends in *des*, and probably belongs to this group. Paspatis writes *kerdes* "to do," *lades* "to take," *dades* "to give," *soades* "to sleep," *mengades* "to ask," *rudades* "to weep," which may be transliterated perhaps कराव, लाव, दाव, सोवाव, मंगाव, रुवाव respectively. These are words of the Chingana or Turkish Gipsies. Those in Bohemia ap-

parently drop the final *a* and shorten the *d*, as *chorae* "to steal" (चोरव), *kerav* "to do" (करव), *chiannav* "to tear" (चिन्नव). Those in Wallachia appear to pronounce the termination as *ao* (खओ or खाओ?), as *jao* "to go" (जाओ), *hao* "to eat" (हाओ), *peo* "to drink" (पेओ).¹

In all these languages the idea of an infinitive glides off imperceptibly into that of a verbal noun, and the *Ba* form thus reveals its origin from the Sanskrit future passive participle in तव्य, from which, as we have seen in Ch. III. § 51, many tenses are formed.

The *Na* type occurs in Hindi, as also in P. S. M. It has two forms in H., one archaic and poetical ending in *ana*, the other modern and classical in *ad*. The first of these two forms I would derive from the Sanskrit verbal noun in *anam*, as करणं "doing," पतनं "falling." It is in frequent use, uninflected, throughout the poets, thus—

पुरुषपातन तिन बंधन विचारि ॥

"Having plotted to stop his virility."—Pr. R. i. 178.

कियो चलन कौ सात्र ॥

"He made preparation to go."—ib. xx. 28.

जैन बुरन जानिम बुझार ॥

"To join battle a terrible warrior."—ib. xx. 31.

सत्य कहीं मोहि जान दे भार ॥

"I speak truth, suffer me to go, mother."—Talsi-Ram. S.-k. 7.

राम मैल बन देखन जाही ॥

"They go to see the hill and forest of Rām."—ib. Ay.-k. 21.

It is unnecessary to give more instances of this very common form. It still survives in Kanauji, as मारन "to strike." The other form in ना was anciently written नौ, and is always so written in Braj, as मारनौ "to strike," आवनौ "to come." This form I now agree with Hoernle in deriving from the Sanskrit

¹ Miklosich, *Zigeuner Europa's*, part ii. p. 9.

future participle in *antya*, so that from करणीयं, through Pr. करणीच् and करणच्, would come Old-H. करनी, M. करणे, and P. करना. I, however, would refer the S. करणु to the verbal noun in *anam*, because the final vowel is short, and, as in all similar nouns, reproduces the final *o=u* of the *a*-stem (see Hoernle's essay in J.A.S.B. vol. 42, p. 59, etc.). The two forms of the infinitive are thus analogous in respect of their derivation, and the fact of the existence side by side of two sets of forms with precisely similar meaning is explained by that of there being two participles of similar meaning in Sanskrit, both of which have left descendants.

Under these altered lights I must withdraw the opinion formerly held by me as to the origin of the infinitive in *ad*. That in *ana* is now obsolete, except in Kannaḍi, and the *ad* form is declined as a noun in *d*, making its oblique in *e*, as *karne kd* "of doing," *karne meḡ* "in doing." In M. the infinitive is also declined as a noun of the sixth declension (Vol. II. p. 192), thus gen. *karanyā chā* "of doing," dat. *karanyā lā* "to doing." In Sindhi, however, the infinitive vindicates its claim to be considered as a descendant of the verbal noun in *anam* by exhibiting the declension of masculines (i.e. neuters) in *u*; the oblique ends consequently in *a*, as *gihana jo* "of buying," *gihana meḡ* "in buying," etc. This would not be the case were the S. infinitive derived from the participle in *antya*.

M. has an infinitive peculiar to itself ending in कं, as मरुं "to die," which is comparatively little used, and only with the present tense. I am unable to suggest any thoroughly satisfactory explanation of this form which does not appear to have any analogy in the cognate languages. It may be the only descendant of the Skr. infinitive in *tum*, with elision of the *t*, but this is somewhat doubtful. To this place must also be referred the B. infinitive or verbal noun in *d*, as करा "to do," or "the act of doing," which, after stems ending in a vowel, appears as या, the *y* of which is not pronounced; thus हचोया

pronounced "hōwā," देओदा "dewā." The origin of this form is not clear to me, but it is probably connected with the participle in तव.

§ 75. On the basis of the infinitive in *nd* is formed the agent. This, in Hindi, is made by adding to the oblique of the infinitive the words बाला, हारा; as करनेबाला "a doer," देखनेहारा "a seer." Of these the former is apparently Skr. पालक "protector, keeper." Thus Skr. गोपालक "cowherd," becomes H. बाला; as to the latter there is some difference of opinion, some would derive it from Skr. धारक "holder," others from कारक "doer." I myself incline to the latter view; the क would be elided when it ceased to be initial, and its place supplied by ह, which is often used to fill an hiatus. This is Trumpp's opinion (Grammar, p. 75), who shows that in S. this form of the agent exists as *kāro* or *kāru*=respectively *kāraka* and *kāra*, as in—

सिर्जणु "to create,"

सिर्जणहारो (ह) "creator,"

लिखणु "to write,"

लिखणहारो (ह) "writer,"

also in its original form of *kāro* or *kāru*, with nouns, as झेदो "quarrel," झेडाकार "quarreller."

Kellogg (p. 245) refers to the phrase धारन धारयं in Chand's first verse as confirming the derivation from धारक; but this identification rests on a translation of that verse very confidently put forward by a writer whose high estimate of himself as a translator of Hindi has not yet been confirmed by the opinion of scholars in general. The translation in this particular instance is extremely uncertain, and no argument can be based on it.

Hindi has also an agent in बैया, as करबैया "a doer," रखबैया "a keeper," which is shortened from बारिया, a dialectic form of बाला. It is confined almost to rustic speech, though the shorter form बारा is not uncommon in the poets. H. बाला may be added also to nouns, to imply the doer of an action, or

the person who takes care of a thing, in which latter respect the original meaning of *pālaka* is well preserved. Thus घोड़ेवाला "one who takes care of a horse." So also in P. घरवाला "husband," i.e. one who takes care of or maintains the house, and still more frequently घरवाली *f.* "wife." Sindhi changes ल to र *more suo*, and has वारी, as घरवारो "householder," from घर "house," and दिखखवारो "giver," from दिख्खु "to give," H. देनेवाला.

Chand uses the form in हार, shortened from हारा, to make a sort of future participle, in the verb हो "be." Thus—

होइ होनहार सीता हरन ॥

"The rape of Sita, which was to be, takes place."—Pr. R. iii. 27.

Also—

ते कहूँ होनहार पहचानिय ॥

"Thou knowing something of futurity."—ib. xxi. 92.

इनहार एसी लयी । कही जु आरह उपाय ॥

"It is written thus as destined to be, the plan which Alha has spoken." —ib. xii. 94.

Probably, also, to this place belongs the affix वारी in words like पटवारी "a village accountant," the व being an indication of a lost क, from कारी (कारिन्) "doer."

In M. and G. this form loses its initial consonant, and appears simply as *dra*. In G. it is incorporated into one word with the verbal noun in *ana*, of which, except in this conjunction, no traces remain. Thus from होवु "to be," comes होनार "one who is." But, just as in the Old-H. होनहार, the sense of futurity has usurped the place of the original idea of agency, and *honâr* now means "he who, or that which, is to be," as सखे होनार ते होय । शत बीना बोवु नही कोय ॥ "That which in truth is (destined) to be, comes to pass, except truth there is nothing else" (Samaldas, Leckey, p. 64). It also takes the long o, as बनार or बनारी "that which is about to become," from बवु "to become," बननार "that which is able," from

शक्युं "to be able;" and is in practice used simply as a remote future tense, less immediate in its action than the simple future of the *as* type, but equally common. Thus एतन्ना माटेव जने तने मारनार "For this very reason we are *about to kill* thee;" पोताभा धर्मेन कदी छोडनार नथी "He *will never forsake* his religion," in other words, "he is not a forsaker (H. छोडनेहारो) of, or one who is likely to forsake, his religion;" ऊं बीबाने मारीने शुख भोगवनारो इतो "Having killed another, *I was about to enjoy* happiness," literally, "I was becoming an enjoyer" (Leckey, p. 161).

It is probably owing to the absence of any derivative of the verbal noun in *and* that the grammar-writers have failed to understand the true origin of this form, and have supposed it to be composed of the verbal stem and a suffix *ndr* or *ndro*, so that *chhodandro* is by them divided *chhodā-ndro*, instead of *chhodan(a)-(h)dro*.

A similar misapprehension has occurred in M. In that language, also, *dr*, *drā*, are used, added to the infinitive in ज्ञे, to make, not a noun of the agent, but a future participle, so far, at least, as the meaning goes. Thus from करज्ञे come करणार "a doer," and करणारा, obl. करणारे. But these are used in the sense of "one who is about to do," as in G. So येणारे लोक is "the people who are coming," i.e. "who are expected to come." Godbol, at p. 109 of his excellent Marathi Grammar, indicates rightly the origin of this tense, and illustrates it by such nouns as Skr. कुंभकार, Pr. कुंभकार, M. कुंभार. Other grammarians, however, still speak of "the participle in णारा."

This noun, used, as above explained, participially, is employed to form compound tenses, § 62. In H. and P. the noun in *vāḍā* (not *vāḍā*) is used in a future sense, as बुड जानेवाला या "he was just about to go." This is not perhaps a classical phrase, but it is one which one hears a dozen times a day from the mouths of people of all classes.

In O. one also hears a form in *vāḍā* added to the infinitive,

as पादवाञ्छीयान् "a receiver." I suspect, however, that this is a recent introduction from the Hindi. There is no *w* in Oriya, and in trying to express the sound, they imitate the Bengalis, and put that form of *य* which it has as the last member of a nexus (the *ya-phala* as they call it), behind an *ओ*. They pronounce this extraordinary combination *wa*, and not *oya*, as it should be. The natural genius of the language has no form for the agent; instead of saying "the speaker," they would say, "he who speaks," or, if educated, would use the Sanskrit agent in *तु*.

B. had, in its original state, apparently no noun of the agent. In modern times, recourse has been had to Sanskrit agents, which have been used whenever required, but colloquially it is easy to do without a *nomen agentis*, by slightly varying the arrangement of the sentence, and this is generally the course pursued. Such forms as कर्ता "doer," दाता "giver," used in literature, are, of course, Sanskrit pure and simple, and as such do not concern our present inquiry.

§ 76. The pronominal suffixes which are peculiar to Sindhi among the languages of the Indian group are also affixed to verbs, and, indeed, much more copiously used in that connection than with nouns. At Vol. II. p. 334, these suffixes, as applied to nouns, were briefly treated; they require more elaborate handling under verbs. It was mentioned, at the place cited above, that in this respect Sindhi allied itself with the neighbouring Aryan group of the Iranian languages, especially with Persian and Pashtu. I am not in a position to analyze the Persian and Pashtu analogies, and with respect to the latter language, though Trumpp has shown (*Zeitschrift d. D. M. G.* vol. xxiii. p. 1) that it is in many respects more closely allied to the Indian than to the Iranian group, yet it is so evidently a border language, transitional between the two, that to admit it to the present work would carry me beyond the limits of my

undertaking. It will suffice merely to notice, without attempting to discuss, the suffixes of that language as they occur in analogy with Sindhi.

These suffixes are used to bring the object of the verb's action into one word with it, and may be thus considered as datives, accusatives, or whatever case expresses the nature of the action of any particular verb. They are the same in form as those attached to nouns, and stand thus in comparison with Persian and Pashto:

	SINDHIAN.			PERSIAN.		
Sindhi	1. मि	2. र	3. मि.	1. ऊँ, झ	2. व	3. नि, न.
Persian	1. اَم	2. اَت	3. اَس.	1. مَآ	2. مَآ	3. كَآن.
Pashto	1. me	2. de	3. e.	1. mu, um	2. mu	3. e.

Taking the aorist of the active verb as the simplest tense, we find the suffix simply added without effecting any phonetic changes in the termination of the verb. Thus—

Sing. 1. चाऊँ छडिआँ "I let go," with suff. of 2 sing. छडिआँर "I let thee go," छडिआँसि "I let him go," with suff. of 2 pl. छडिआँव "I let you go," छडिआँनि "I let them go."

Sing. 2. तूँ छडिएँ "thou lettest go," with suff. of 1 sing. छडिएँमि "thou lettest me go," and so on.

Pl. 3. हँ छडिनि "they let go," with suff. of 3 sing. छडिनिमि "they let him go," and so on.

The imperative is treated exactly in the same way. The respectful form takes रजाँ in the singular in this connection, not रजे, as छडिजाँमि "Please to let me go," छडिजाँसि "Please to let him go."

In the participial tenses a still greater variety of forms results from the change of the termination for gender in the third

person singular and plural. The first person, however, also undergoes changes. Thus, in the present participle used as a future, **हृदसि** "I shall be," *m.*, becomes **हृदोसी**, and **हृदिष्यसि** "I shall be," *f.*, becomes **हृदीसी**. So that we get forms—

- m.* **हृदोसार** "I shall be to thee," **हृदोसीसि** "I shall be to him."
f. **हृदीसाव** "I shall be to you," **हृदीसीनि** "I shall be to them."

So, also, the plurals **हृदासो** *m.*, and **हृदिजसो** "we shall be," become respectively **हृदासूं** and **हृदिजसूं**. The second person remains unchanged, merely affixing the personal suffixes. In the third person *m.* **हृदो** is shortened to **हृदु**, and *f.* **हृदो** to **हृष** or **हृद**; *pl. m.* **हृदा** becomes **हृद**, except with the suffix of the first person plural, as **हृदासूं** "they shall be to us," but **हृदष** "they shall be to you;" *pl. f.* remains unchanged.

The past participle used as a perfect tense undergoes analogous changes. Thus—

- 1 Sing. *m.* **होसि** "I was," becomes **होसी**, as **होसार** "I was to thee."
 „ *f.* **जषसि** „ „ **जईसी**, „ **जईसीसि** "I was to him."
 1 Pl. *m.* **जषासो** "we were," „ **जषासूं**, „ **जषासूंनि** "we were to them."
 „ *f.* **जयूसी** „ „ **जयूसूं**, „ **जयूसूंव** "we were to you."

The second and third persons remain almost unchanged. In active verbs, however, where only the 3 sing. is used, owing to the objective construction, a somewhat different system prevails. The subject, which in other languages is put in the instrumental, may in S. be indicated by a suffix, and the object being also shown by a suffix, it arises that the verb may have two suffixes at the same time. Thus "I forsook thee," would be in H. **मं ने तुझ को छोडा**, lit. "by me thee forsaken," where the subject is in the instrumental, and the object in the accusative, case, the verb (*i.e.* participle) being left in the masc. singular, because there is no neuter in H. In M., which has a neuter,

the Bhāva or impersonal construction is used, as **म्या तुला मोदिले** "by me to thee released," as though it were *a me tibi relictum* (est). Sindhi expresses this sentence by one word **छडिओमार**, i.e. *chhadio-mān-i* = "forsaken-by me-thee." Thus there arises a long string of forms for every possible combination of the agent and the object. A few may be given as examples; a full range will be found by those who desire to pursue the question further in Trumpp (p. 371) :

छडिओमांसि "I have forsaken him."

छडिआहेसि "he has forsaken him."

विहारिआहेसि "he caused him to sit."

चिआंऊसि "they said to her."

चिआहेनि "she said to them."

The suffixes denoting the agent are **हे** sing. and **ऊं** pl., which Trumpp considers to be shortened from **एन** "by him," instr. of **हो** "this," and **उनि** "by them," instr. pl. of **ह** "that," respectively.

A curious proof of the antiquity of these complicated forms with suffixes is afforded by the fact, that in connection with them the 3 sing. norist of **अस्** appears still in its old Pr. form of **अय** (**अत्ति**), § 59. This form exists only in combination with the pronominal suffixes, whereas the ordinary form **आहे** is used both with and without suffixes. Thus they say **आहेमि** and **अयमि** "there is to me," as in the line—

गुप्ती अयमि गाल्हडी आउ ओहे ता ओरीयां ।

"There is to me a secret matter, come near, then I will tell it."

—Trumpp, p. 259.

It is used just as in Latin "*est mihi*," in the sense of "I have," as **अयमि** "I have," **अयी** (for **अयइ**) "thou hast," **अयसि** "he has," **अयूं** (for **अयऊं**) "we have," **अयव** "ye have," **अयनि** "they have." It is incorrect to say with Trumpp (*loc. cit.*)

that *atha* has in S. "been transferred to the plural." The verb remains in the 3 sing. throughout, and takes suffixes of both numbers and all three persons.

In the compound tenses the suffixes are attached to the auxiliaries, leaving the principal verb unchanged. Both single and double suffixes are used in this way, just as with the simple and participial tenses. Thus *किसी होइ* "thou hadst made," *जहिं खिदमतगार (خداستگار) खे खगे सेखारिखो हारि* (for *उपहारि*) *तहिं डे निहारि* "He looked towards that servant whom he had previously instructed," literally, "Which servant previously by him instructed, to that (one) by him looked" (Trumpp, p. 379).

It is tempting to look for the origin of this habit of using suffixes to the Semitic languages, which, from the early conquests of the Arabs in Persia and Sindh, may have had an influence upon the speech of those countries. On the other hand, however, the presence of a precisely similar habit in Italian and Spanish, seems to show that there exists a tendency to such constructions even in the Aryan family; for I suppose that even if we see in the Spanish forms a trace of Arab influence, no such motive power can be argued for any part of Italy, unless it be Sicily.

In Italian there are separate forms for the suffixed personal pronouns, and when used with a verb in the imperative or infinitive, these suffixed forms are incorporated into the verb; thus they say *rispondetemi* "answer me," *pariategli* "speak to him," *datele* "give her," *immaginarlo* "to imagine it," *offriteci* "offer us." Double suffixes are also used, as *assicuratevene* "assure me of it," *dateglielo* "give it to him," *mandateglielo* "send them to him."

So also in Spanish, *vino á verme* "he came to see me," *vengo á soccorrerte* "I come to help thee," *quiereo castigarte* "I will punish you," *dejeme* "let me go," *pasandome* "as I was passing," *escribale* "write to him," *diles* "tell them." Here, also, double

suffixes may be used, as *decirtelo* "to tell *it* *thee*," *mostraduosla* "show *her* to *us*."

It is noticeable, however, that this habit in Italian and Spanish is modern, and does not exist in Latin, any more than it does in Sanskrit. Is it, then, a result of the confusion of forms that sprung into existence simultaneously with the decay of the old synthetic system, or is it an adoption of a Semitic principle? Diez finds the origin of the suffixed pronouns in shortened forms of the dative and accusative of Latin, which were already in use in the classical period.¹ It remains, however, to be explained how this peculiarity arose in the Romance group, in one member of the Iranian, and two members of the Indian group, only, and nowhere else in all the wide range of the Indo-European family.

§ 77. Having now gone through all the forms of the modern Indian verb, the subject may be closed by some remarks on the way in which the terminations are added to those verbal stems which end in a vowel. So many of these terminations begin with vowels, that a hiatus necessarily ensues, and the modern languages, though they do not, as a rule, object to a hiatus, do in this particular make occasional efforts to avoid it.

Hindî stems end only in long vowels—*ā*, *ī*, *ū*, *e*, *o*. Some grammarians call those stems which end in a long vowel *open* roots, and those which end in a consonant *close* roots. This terminology has nothing to recommend it, and there is no advantage in retaining it. The tenses whose terminations begin with vowels are the aorist, future, imperative, and past participle.

Before terminations beginning with *ā* or *o*, no attempt is made to soften the hiatus, but before *ī* and *e* there is sometimes inserted a य or व. As types may be taken the stems जा "go,"

¹ Gramm. d. Romanischen Sprachen, vol. II, p. 53, et seqq.

पी "drink," छू "touch," दे "give," and बो "sow." The aorist of these five is as follows:—

SINGULAR.

1. आऊँ	2. जाए, आवे, जाय	3. <i>id.</i>
1. पीऊँ	2. पीए, पीवे	3. <i>id.</i>
1. छूऊँ	2. छूए	3. <i>id.</i>
1. देऊँ, दूँ	2. देवे, दे	3. <i>id.</i>
1. बोऊँ	2. बोए, बोवे	3. <i>id.</i>

PLURAL.

1. जाए, जावे, जाय	2. आओ	3. जाए, जावे, जाय
1. पीए, पीवे	2. पीओ	3. पीए, पीवे
1. छूए	2. छूओ	3. छूए
1. देवे, दे	2. देओ, दो	3. देवे, दे
1. बोवे, बोए	2. बोओ	3. बोवे, बोए

The common stems *de* and *le* usually suffer contraction by the elision of their final vowel, and one more commonly hears *do* "give!" *lo* "take!" *dāngā* "I will give," *lāngā* "I will take," than the full forms.

The future and imperative follow the same rule as the aorist. In the past participle of stems ending in *d*, *य्* is inserted before the *d* of the termination, as आ "come," p.p.p. आ-य्-आ (आया), पा "find," पाया, खा "eat," खाया. But in the poets, especially in Tulsī Dās, instead of *v* we find *य्* commonly inserted. Thus, एहि बिधि राम सबहि समुझावा "In this way Ram explained to all" (Ay-k. 457). आवा "came," बनावा "made," पावा "found," गावा "sang," for आया, बनाया, पाया, गाया respectively. Kabir uses both forms indifferently. Thus in Ram. 48, i. पढाया "caused to read," पाया "found," but in the next, Ram. 49, पावा and आवा. In the fem. sing., however, and in the pl. m. and f., the junction-letter *v* is not used, thus चारै "she came," बनाई "she made," fem. sing., आवे, पावे masc. pl. As all

causals end in *d*, these forms are of frequent occurrence, and sometimes even an *ह* is inserted, as *बनारह्या*. In the old *ba* future, the *d* of the stem and the initial *i* of the termination frequently coalesce into *ऐ*, as—

ककुल दिवस जननी धरु धीरा ॥

कपिन्ह सहित ऐहै रघुवीरा ॥

निशिचर मारि तुमहि कि जेहि ॥

तिहुँ पूर नारदादि अश नैहि ॥

"For a few days, mother, sustain thy courage,
Raghubir *will come* with the monkeys,
Slaying the demons, *will carry* thee off;
The three worlds, Nārada and all *shall sing* his praise."

—Tulsi, Ram., S.-k. 26.

where ऐहै = आरहै, जेहि = जारहै, and नैहि = मारहै; so also we find ऐहै "they will find," for पारहै, mod. पावेगे (Tulsi, Ram., S.-k. 10). In other places, however, we find the junction-letter *व*, as पावहि, आवहि, etc.

In Panjabi the junction-letter for the aorist, imperative, and future is regularly *व*, as आवे "he goes," आवेगा "he will go," but before *o* it is omitted, as जाओ "go ye," जाओगे "ye will go." For the past participle it is *र*, as होरहा "been," masc. sing., and is omitted before *e*, as होए "been," masc. pl. In the three first-named tenses the *व* is regularly inserted in pure P., but in speaking it is now sometimes, under the influence of Hindi, omitted, and देगा is heard instead of the more characteristic देवेगा.

In Sindhi all verbal stems end in a vowel, those stems, which in other languages end in a consonant, having in that language a short *a* or *i*. In this class of stems, before the neuter infinitive in अणु, a *व* is inserted, as प "fall," infin. पवणु; नि "bow," infin. निवणु. Before the active infinitive in एणु no junction-letter is employed, as म "measure," infin. मरणु.

Stems, whether active or neuter, ending in *i* and *û*, and sometimes those ending in *o*, shorten those vowels in the infinitive, as—

पी "drink,"	inf.	पिबणु
पू "string,"	"	पुञ्चणु
धो "wash,"	"	धुञ्चणु
रो "weep,"	"	रञ्चणु
ढो "be,"	"	डञ्चणु

but, on the other hand, डो "carry," has infin. डोञ्चणु; and stems in *â*, including causals, retain the long vowel, as—

गाल्हा "speak,"	inf.	गाल्हारणु
फेरा "cause to turn,"	"	फेरारणु.

The aorist follows generally the type of the infinitive, retaining the short vowel. In the persons *व* is inserted as in P., except before *â* or *o*; thus पवा "I fall," is declined—

Sing. 1. पवा 2. पवे 3. पवे. Pl. 1. पञ्जे 2. पञ्चो 3. पवनि.

The *व* may be dropped before 2 and 3 sing., as चए "thou sayest," or "he says." The common verb दिञ्चणु "to give," undergoes contraction in this, as in all the other languages; thus 2 sing. डी "thou givest," not दिऐ, 3 pl. डीनि, not दिञ्चनि.

Verbs ending in *â* insert *य* before *â*, *û*, and *o*, as बुढायी "I grow old," बुढायूं "we grow old," बुढायी "ye grow old."

The imperative and other tenses follow the general rule, which may, for Sindhi, and, to a great extent, for the other languages also, be thus stated; the junction-letters are *व* and *य*, *व* is omitted before vowels of its own organ, as *u* and *o*, and *य* is omitted before *i* and *e*; before *â* both are employed, but preferentially *व* after short vowels, and *य* after long ones.

Thus, in the present participle, which is used as a future, *व* is either inserted or omitted, as—

पवणु "to fall,"	पवदो "falling."
पिबणु "to drink,"	पिबदो "drinking."
धुवणु "to wash,"	धुवदो "washing."

Contraction also occurs, as चवणु "to speak," चंदो (चवदो) ऊचणु "to be," हंदो (ऊचदो) दिवणु "to give," डोदो (दिवदो). The past participle regularly ends in रचो or यो, and the inserted व is naturally dropped before it, thus—

चवणु makes चयो, not चयो.

नवणु " नयो " नचो (Old-H. नाया).

If the stem ends in a palatal vowel or consonant, the *i* of the termination is dropped, as—

बिबणु "to become," बिबो, not बीबो = बि + रबो.

कुइणु "to speak," कुइो.

सोइणु "to laquire," सोइो.

Passives naturally drop the euphonic व of the active infinitive before their palatal junction-vowel, as—

चवणु "speak," imperfect चउ, Passive चरवणु "to be spoken."

पवणु "fall," " पउ, " पइवणु "to be fallen."

The stems quoted above, as shortening their radical long vowel before the termination of the infinitive active, naturally retain the long vowel in the passive, as—

पी "drink," पीवणु "to be drunk."

पू "string," पूवणु "to be strung."

धो "wash," धोइवणु "to be washed."

There is very little to notice, in this respect, about G. The orthography of that language is still in so unfixed a state, that it is impossible to seize upon any principles as to junction-letters. One writer will insert them, while another omits them, or the same writer will insert them on one page and omit them on the next. Thus we find होए, होये, होच, होव written in-

differently, also **करये** and **करए**. Until the natives of that province make up their minds as to how their language ought to be spelt, it is impossible for foreigners to evolve any laws or rules on the subject.

§ 78. Marathi is slightly more sensitive to hiatus, and has a greater fondness for the **य**-sound than the other languages. There exists, consequently, in some persons of certain tenses, a system of Sandhi for Tadbhava words and forms, which differs in its general principles from that prevailing in Sanskrit. The grammar-writers, unfortunately, either omit entirely or only casually note these important combinations. The following remarks are offered as a contribution to the subject.¹

The tenses of the M. verb, whose terminations begin with a vowel, are the aorist, imperative, future, and subjunctive, also the participles present and past, the conjunctive and infinitive. These are for the neuter verb; in the active verb the **र**, which is inserted between the stem and termination, causes a collision of two vowels in the other tenses also. Verbal stems ending in all the vowels except *a* have here to be considered (**खा** "eat," **पी** "drink," **गहे** "take").

Aorist, (in modern usage past habitual)—

SINGULAR.			PLURAL.		
1. खाई	2. खाईस	3. खाई.	1. खाऊं	2. खा	3. खात.
1. पीई	2. पीईस	3. पीई.	1. पीऊं	2. पा	3. पीत.
1. घेई	2. घेईस	3. घेई.	1. घेऊं	2. घ्या	3. घेत.

But in the 3 sing. **घे**, **पी** are used, so also **देस**, **घेस** in 2 sing., and in the 3 pl. the final **ई** is elided. In 2 sing. both **ई** and **ए** are changed to the palatal semivowel before *d*, though not before *n*, so that we have **पा**, **घ्या** side by side with **पीऊं** (not **पू**), **घेऊं** (not **घू**).

¹ For the illustrations to this section I have to thank Captain G. A. Jacob, Inspector of Schools, Poona, who kindly furnished me with details which are wanting from most of the grammars.

In the future there is similarly in 2 pl. खाज, याज, घ्याज, and so also in the imperative 2 pl. घ्या, या; ये "come," makes aorist 2 pl. या, future याज, and occasionally one hears ये aorist 3 sing. for the more regular येर.

In the subjunctive the semivowel occurs again, as घ्यावा, घ्यावा, but यावा simply from ये. This last verb should, by analogy, form घ्यावा, but the double *y* in such a position would be unpronounceable, and a single *y* is therefore exhibited. It must not be supposed that the *r* of ये has simply been dropped.

For the potential the termination of the present वर्ते might have been expected to be simply added to the verbal stem, as no hiatus would thus be caused. But the origin of this form from the Skr. part. in तच् renders this course impossible. The त of तच् having suffered elision, there naturally results an hiatus. Thus from खादितच्, Pr. खाइचङ् gives खावव, the first व supplying the place of the lost द, so that in the potential we get not खावर्ते, but खाववर्ते. Similarly पीववर्ते, घेववर्ते, येववर्ते, and even in stems ending in ह, as लिह "write," लिहववर्ते.

Stems ending in *u* preserve the hiatus almost throughout, thus धु "wash"—

Aor. धुरे, धुरंस. धुरे; धुऊं, धुआ (but धुत).

Fut. धुरेन, धुरेन, धुऊं; धुआन, धुतीन.

Subj. धुआवा or धुवावा.

Pot. धुववर्ते.

In the present participle only त is added, not रत or अत, as खात, पीत, घेत, येत, धुत, and in the past participle the semivowel is generally used, as—

खा p.p. खाजा "eaten."

ले .. खाजा "put on."

भी .. भ्याजा "feared."

वि .. खाजा "brought forth."

पी .. प्याजा or पिजा "drunk."

Some stems avoid the hiatus by insertion of त, as घेतला, धुतला (see § 47), which is also used in some stems ending with a consonant.

The conjunctive is खाऊन, पीऊन, घेऊन, येऊन. These are all the forms in which an initial vowel of a termination comes in contact with a final stem-vowel, and it will be observed that the change of the latter into a semivowel occurs generally before *a* or *ā*, but not before *i* or *ē*. When the stem-vowel is *u* or *o*, the semivowel is added to, not substituted for, the vowel, as in धुवावा, not ध्वावा. From this and other instances in word-building, and in the formation of the case of the noun, it would appear that the labial and palatal vowels are more permanent and less liable to change in Marathi than the guttural vowel.

It is somewhat difficult to follow the author of the Portuguese grammar of the Konkani dialect, in consequence of the peculiarity of the system of transliteration which he uses, and only half explains, but there would appear to be several forms peculiar to that dialect. Thus he tells us that *से* makes its past part. *yelo* or *ailo*, which latter he calls "marattismo," as if all Konkani were not Marathi. *से* makes *ghelo* (perhaps घेरला), as well as *ghello* (घेतला). *Qhatā* (खा) makes *ghelo* (खेला) "outros dizem *ghailo*" (खारला), he adds, "ambos irregulares," though the latter, from a Marathi point of view, would be more normal than the actually used खाला. Perhaps the author would call it a "marattismo." Generally speaking, it would appear from the specimens of Konkani given by Burnell,¹ that the termination of the p.p. consists of लो, ली, ले, etc., added to the stem without an intermediate vowel, as बसलो "sat" (M. बसला), पडले "fell" (M. पडला), रावली "remained" (M. राहिली), and the like.

The differences between Konkani and Marathi do not, 1

¹ Specimens of South Indian Dialects (Mangalore, 1872).

think, entitle the former to be considered a distinct member of the Aryan group, but rather a dialect of the latter, which has been subjected very largely to Dravidian influences. Parallel to it, on the opposite coast of India, is the Oriya spoken in Ganjam and Vizagapatam, which, though radically Oriya, has, nevertheless, been much Dravidianized by the influence of the Telugu which surrounds it. Both Ganjam Oriya and Konkani Marathi show traces of this influence not only in pronunciation, but even in structure. There is much to be said on this subject, were this the proper place for it, and, from the known results in languages under our own eyes of Dravidian influences on Aryan speech, we might have considerations as to the probable extent and nature of those influences in former times. The subject would require a whole treatise to itself.

§ 79. In Bangali no attempt is made to avoid hiatus, the verbs ending in vowels simply add the terminations without any change. Thus या "go" (pronounced *ja*), makes—

SINGULAR.

PLURAL.

Aorist. 1. याइ 2. याइस 3. याय. 1. याइ 2. याओ 3. यान.

Present याइतेहि, subjunctive याइताम, and so on.

Contraction, however, takes place in the 3 pl. of the aorist, as in यान for याएन, हुन (*hōnō*) for होएन, and in the familiar verb दे "give," almost throughout; thus we have—

SINGULAR.

PLURAL.

Aor. 1. दि 2. दिस 3. देय. 1. दि 2. देओ 3. देन

Pres. 1. दितेहि, etc.

Pret. 1. दिनु 2. दिन्सि 3. दिन. 1. दिनाम 2. दिने 3. दिनेन

Fut. 1. दिब 2. दिवि 3. दिवे. 1. दिब 2. दिवांवे 3. दिवेन.

contracted from देइ, देइतेहि, देइनु, देइब, etc., respectively. As a rule, however, though in ordinary speech many of the forms of stems in vowels are very much contracted, yet in

writing the full forms are always used. It is only in a few very familiar words that the contractions are admitted into the written style of the present day. The old poets, however, writing more freely and naturally, employ them frequently. Thus Bhārat Chandra, मजुन्दारे संगे निजा घोडा चढाहया "He took Majumdār along with him, having mounted him on a horse" (Mansingh, 417), where निजा is for नइजा, from नइते "to take." So he constantly uses कय for कहै "says," as कौटाल हासिया कय । कहिते जाज ना हय । "The Kotwal laughing, says, Are you not ashamed to say so?" (Bidyā-S. 356), also कव for कहिव, as हाय हाय कि कव बिधिरे "Alas! alas! what shall I say to fate?" (*ib.* 360), and दिन for देन aorist 3 sing., as आगे दिया कतदुख मध्ये दिन कतसुख "First having given how much pain, they give in between how much pleasure" (*ib.* 359).

The contractions admitted in Oriya are similar to those in Bangali, but the language does not avoid the hiatus in any way; and in both O. and B. the terminations are almost universally preceded by short *i*, which does not combine with the preceding vowel, but in pronunciation often disappears altogether. Thus they say, O. खावु "wilt thou eat?" for खाइवु. In a few words the vowel of the root has gone out, thus from जा "go," we have जिवि "I will go," for जाइवि; from था "remain," infin. थिवा for थाइवा; पा "find," however, retains its vowel, as पाइलि, पाइवि, पाइवा. Also जा and था retain their vowels everywhere except in the preterite, future, and infinitive.

CHAPTER VI.

THE PARTICLE.

CONTENTS.—§ 80. ADVERBS NOMINAL AND PRONOMINAL.—§ 81. PRONOMINAL ADVERBS OF TIME, PLACE, AND MANNER.—§ 82. ADVERBS DERIVED FROM NOUNS AND VERBS.—§ 83. CONJUNCTIONS.—§ 84. INTERJECTIONS.—§ 85. POSTPOSITIONS.—§ 86. CONCLUSION.

§ 80. THE seven languages are rich in adverbs, and have a specially symmetrical range of pronominal adverbs, corresponding to the several classes of pronouns. The forms were given in Vol. II. pp. 336-38, in order to show their analogy to the pronouns, but nothing was said in that place about their origin; it will now be necessary to consider them more closely. The pronominal adverbs may be at once assumed to have sprung from the pronouns to which they respectively correspond, by the incorporation of some noun indicative of time, place, manner, and the like. On the other hand, the adverbs which have no pronominal meaning are clearly derived from various cases of nouns, whether substantives or adjectives. Participles, also, in virtue of their seminominal character, are used adverbially, either in their original form, or with certain modifications. Adverbs, therefore, may be divided into two classes, nominal and pronominal, with reference to their origin, and into three general categories of time, place, and manner, with reference to their meaning. To these must be added adverbs of confirmation and negation, and certain little helping words which are more adverbial in their nature than anything else. It is also to be noted that, while on the one hand simple nouns are often used adverbially, on the other hand, adverbs are

capable of being used as nouns with postpositions after them, as in H. तब की बात, lit. "the word of then," i.e. "the matter that took place then," अब के राजा लोग "the kings of now," i.e. "those of the present day."

§81. (1). Pronominal adverbs of time.—The near demonstrative is H. अब, G. हवे, M. एव्ही, O. एवे. All these hang together, and are apparently compounds of the Skr. वेला "time," with the type of the demonstrative अ, इ, or ए. The fuller form in O. shows this, it is एते बेळि, which is clearly the locative case of a masculine वेळ, literally, "in so much time." G. has prefixed a ह, but many words in G. may be indifferently written with ह or अब; there is, therefore, nothing organic about this letter when met with in this connection. In M. एव्ही also the ह seems to be somewhat anomalous. There are also, however, many other forms for "now" in the various languages, which appear to be unconnected with वेला.

Hindi is mostly, however, faithful to the type in अ; thus in Braj अबे, Marwari अमे, and still more clearly Bhojpuri एवेर, which approaches to the O. एवे. The same type runs through all the pronominal forms, as अब "whenever," तब "then," कब "when." Bhojpuri जेवेर, तेवेर, केवेर, Braj जवे, तवे, कवे. The Skr. forms यदा, तदा, कदा appear in H. जद, तद, कद, and in the dialectic forms, जदे, जदी, जदू, जदी, जद्या; as also तदे, etc., कदे, etc.; the forms with the palatal and labial vowels have, I think, arisen from the incorporation of the affirmative particle हो or ह "indeed," of which more further on.

Panjabi ऊण, G. S. हाणे, B. एखन, and a dialectic form in O. उकुण, all meaning "now," are to be referred, as the B. form clearly shows, to the Skr. क्षण "instant, moment." For the rest of the series P. has जद, तद, कद. S., however, has another type हिंअर, हेर "now," in which we may, perhaps, see the Skr. काल "time," combined with the pronoun हिंअ "this;"

for the other members of the series it has **जड़िही** "whenever," **तड़िही** "then," **कड़िही** "when?" which arise from the Skr. **यदा**, etc., with the emphatic **ही**, which has changed the preceding vowel into the *i* which is so common in S. They also write **कड़ी** and **कड़िहं** as dialectic variations; also **जा**, **तां** (but not **कां**), where the **द** of **यदा** has suffered elision.

G. has, besides **इधे**, also **हमणां**, **हवडां**, and for the rest **जेवारे**, **तेवारे**, **केवारे**, commonly contracted into **ज्वारे**, etc., in which we see the Skr. **वार** "time." Owing to the G. peculiarity in respect of initial **ह**, we have also **अमणां**, and with a modernized form of Skr. **अव** "here," **अव्वारे** (**अव वारे**) "at this time," "now."

M. is consistent throughout **एव्हां**, **जेव्हां**, **तेव्हां**, **केव्हां**. In Old-M. forms **जेधवां**, etc., occur, showing that the modern **ज्व** is an inversion from **झ** *hr*. The suggested origin from Skr. **यदा**, by aspirating the **द** and adding **यां**, the termination of the locative (Godbol, p. 75), is unsatisfactory. M. has also a series **जंव**, etc., meaning "while," "as long as," which recalls H. **जव** with inorganic *anunāsika*.

O. has the fuller forms, **जेते वेठे**, etc., and **जेवे** explained above; the former is quite as frequently used as the latter, if not more so. "Time is made for slaves," and not for Oriyas.

B. **जखन**, **तखन**, etc., uniformly, pronounced *jōkhon* or *jōkhōnō*, etc. H. adds constantly **ही** for emphasis, as **अभी** "now" (**अबही**), **कभी** "sometimes" (**कबही**), and with the negative **कभी नहीं** "never."

For the indefinite pronominal adverb "ever," "sometimes," the other languages have, P. **कदी** (**कदही**), **कदों**, **कदे**, S. **कदही**, G. **कदी**, M. **कधीं**, B. **कखन**, O. **केवे**, **केवेहिं**. All these are repeated to signify "sometimes," as P. **बदी कदी**, M. **बधीं कधीं**.

The above express definite or quiescent time; for progressive time, whether past, as "since," or future "until," the adverbs above given are used as nouns with case-affixes. Thus H. **अब से** "from now," "henceforth," **तब से** "thenceforth," **कब से**

"since when?" जब से "from the time when," or with the older affix तें in the poets, as in जब तें राम ब्राहि घर आवे । "From the time when Rām married and came home" (Tulsī-Rām, Ay-k. 5). P. जदों. S. जड़िहाको, जड़िहोको, जड़िहाकर; where को is probably a shortened form of कर, an oblique from कह, which we may connect with काल "time," as in हिंअर "now." The long *ā* or *o* of *jadhā*, *jadhō*, as contrasted with the *i* of जड़िहीं, seems to indicate an oblique form. G. हमखायों "henceforth," अत्वारयों, and apparently also आरयों, and the rest of the series. They also say अत्वार पकी "henceforth." M. uses मग or मागें, which are not pronominal. Neither B. nor O. have special forms for this idea.

To express "until" in Old-H. जनि, जौ, जौ, in modern H. जग, तक, and तक, are affixed to the pronominal adverb, as in Chand—

तब जनि कष्ट दरिद्र तन ॥

तब जनि लघु मुहि गात ॥

जब जनि ही आयी नही ॥

तो पार न सेवात ॥

"Till then, pain and poverty of body,
Till then, my limbs were light (i.e. mean),
So long as I came not to thee,
And worshipped not at thy feet.—Pr.-R. i. 276.

Here, as always in H., the negative has to be inserted, and we must translate जब जनि by "so long as." This idiom is not peculiar to H., but is found in many other languages. In modern Hindi जब तक राम घर को नहीं आवे "So long as Rām comes not home," i.e. "until he comes," and the same in P.

S. has इसी or इसीतार "up to this time," सोसी or होसीतार "up to that time," where तार, as explained in Vol. II. p. 298, is Skr. स्थाने, which, from meaning "in the place," has grown to mean "up to." सी, I suppose, is a contraction of समय "time."

(2). Pronominal adverbs of place.—See list in Vol. II. p. 336.

The Hindi series यहाँ, वहाँ, जहाँ, तहाँ, कहाँ, is composed of the pronominal bases with हाँ, which we are justified in referring to Skr. स्थाने; thus तहाँ = तत्स्थाने. The dental is preserved in several dialectic forms (Kellogg, p. 265), as Marwari चठि, चठो, ईठि "here," उठि, etc., "there," Avadhi एठियाँ, ओठियाँ, Bhojpuri एठाँ, एठाई. But the Braj रति, रत, is, I think, by Kellogg rightly referred to the Skr. series चच, तच, etc. The Bandelkhandi form यात्री is probably only another way of pronouncing चारी, as we find in Old-Bengali such words as खसात्रि for खसाई (modern खसाइया). To *sthāne*, also, are to be ascribed the P. forms रत्ति, उत्ति, etc. S. has not only रति, जिति, etc., which may come from चच, यच, but रत्ति, which agrees with P., and हिते, which is, I suspect, like हिक्किडो "one," an instance of a ह being put on to the front of a word without any etymological cause.

G. has various forms आही, आही, हहीं, चहीयाँ "here," and the same variety through all the series. The adverbial part agrees with H. Shortened forms ज्वा, त्वा, क्वा, and even जा, ता, का, are also in use.

M. agrees closely with P. and S. in its series येचि, जेचि, etc., where the final anuswāra, like that of Bhojpuri एठाई, preserves the *n* of *sthāne*. But कोठि "where," has the cerebral.

O. having first made *sthāna* into ठा, proceeds with the declension through its own affixes, and has thus a modern locative ठारै, in एठारै, सेठारै. The final रे is often dropped, and एठा, सेठा, or even shortened एठि, सेठि are used. B. uses खाने, which seems to come from स्थाने on the analogy of खंभो = खंभ (Var. iii. 14) and खानु = खानु (*ib.* iii. 15). For "where," however, it has a more regular form कोचा, in older Bengali कोचाय, as तार मत सन्धासिनी पाइब कोचाय "Where shall I find a female saint like her?" (Bharat, Bidyā-S. 399), where the final य for ए is a relic of the *e* of *sthāne*. We also find हेथा and हेथाय "here," etc.

In the case of the adverbs of this group, as in those of time, the case-affixes are used, as H. **कहाँ से** "from where?" "whence?" G. **आहाँ से** "hence," P. **कित्यों** "whence?" But this practice is only in force to imply motion *from* a place. To express motion *towards* a place a separate set is used.

In classical H. the adverbial element is **धर**, as **रधर** "hither," **उधर** "thither." The dialectic forms are very various. Bhojpuri has **एम्हर**, **उम्हर**, as also **एने**, **उने**, etc.; in eastern Behar one hears **एम्हर**, **हेमर**, and many others. Kellogg quotes also a curious form from Riwā **एही केत**, **एही कयोत**, or **एही मुंह**. If we take the original of all these forms to be **धर**, that is a word of many meanings both in Skr. and H.; but I am disposed to connect the series with M. **म्होर** "face," G. **मोहडु** *id.*, a diminutive from Skr. **मुख**, so that the older adverbial element would be **म्हर**, as in Bhojpuri, whence **म्ह**, which would, by a natural process, glide into **म्हर** and **धर**. For the Riwā form I can suggest no origin.

The S. and M. forms seem to be connected, and with them I would associate the common O. expressions **ए आड़े** "in this direction," "hither" (**ओ आड़े**, **को आड़े**, etc.), which are locatives, and **ए आडु**, etc., "from this place," "hence," which are ablatives. The Sindhi adverb, as usual in that language, is written in a dozen ways, but the simplest form is **एडे** "hither," and **एडा** "hence," which, like O., are respectively locative and ablative. Marathi has what is apparently a fuller form **एकडे** "hither," locative, where the adverbial portion is **कड** "a side," said to be from Skr. **कट** "hip, loin." It has also an ablative series **एकडून** "hence." May we not here throw out a crumb for our Non-Aryan brethren? There is a long string of words in our seven languages of the type *adda*, and our Sanskrit dictionaries give **चडु** "to join," also "to stop." On the other hand, Telugu has *ikkada* "here," *ikkadiki* "hither," which looks very like M. *ikade*. So, also, in Telugu *akkadu* "there." All the Dravidian languages have a root *add*, which,

in various forms, has a range of meanings such as "to be near," "close," "to cross," "to stop," and the like. They may have borrowed from the Aryans, or the Aryans from them. It by no means follows, as the opposite party always assume, that when a word is common to both groups, it must have been originally Dravidian. In the O. expression आद is a noun meaning "direction," and is used in that sense independently of its adverbial employment with the pronoun.

(3). Pronominal adverbs of manner.—The Hindi series यों, ज्यों, त्यों, etc., and for the near demonstrative and interrogative respectively softened forms यूँ and क्यूँ, vary very little in the dialects. Marwari has ऊँ, इऊँ "thus," and, together with Braj and Mewari, has the far demonstrative, which is wanting in the classical dialect, वों or वूँ. Mewari adds कर and ना, as ईकर, रिया "thus," which Kellogg looks on as from Skr. छ and यम respectively, and rightly so; for even in classical H. we have क्यूँकर "how?" and in Chand and the poets करि or कर (कि) are added to all this pronominal series at will.

The older form of this group is still preserved in the Purbi form हम or हमि, जिमि, तिमि. Chand has both this series and the modern one in यो, as यो भयो रिपि अवधूत । "Thus the Rishi was absorbed in thought" (Pr.-R. i. 48), त्यों रह कथ्य प्रमान ॥ ज्यों जानि कोविदे लोय ॥ "Thus this story is proved, its learned folk know" (ib. xiii. 5), पदमावती हम जे चख्यौ । हरपि राज प्रथिराज । "King Prithiraj, rejoicing, thus (*ima*) led away Padmāvatī" (ib. xx. 35), तहाँसु जेम किज्जि गमन । "How can one go there?" (ib. i. 90). Tulsi Das has हमि, जिमि, etc., as in तन पसेउ कदली जिमि कापी "Her body was in a sweat, she trembled as a plantain-tree (trembles)."—Ram. Ay-k. 131.

M. may be excluded, as it has no series of this type, but merely the neuter of the adjective pronoun, as जसैं, जसैं, तसैं. All the other languages have closely allied words. B. हमन, हमन, हमने, हमते, "thus," जेमन, etc.; the first two are nominatives, the last two locatives. O. हमति, जेमति, locatives; also

ए परि, the pronominal type, with a postposition. G. एम, जेम, where the termination has been lost, also for demonstrative जाम. This series is sometimes written जम, तम, काम, but जेम is the more common, as in कीर्ति घर नऊ नी विखीयें जेम मूरज ना पसरै कीर्ण । "The fame of Nala was spread abroad, as spread the rays of the sun" (Premānand in H.-D. ii. 71).

Next in order comes the Old-Purbi IL इमि, etc., and, with the nasal weakened, probably through an intermediate form ईव, and change of the semivowel to its vowel, P. इऊँ and ऐऊँ *māy*, and the full series जिऊँ, तिऊँ, किऊँ, as well as one without the i, जऊँ, तऊँ, etc., to which is allied H. ज्यौ, etc., for जिउ. S. rejects the labial element in ऐच, होच, ईएँ, and the rest of the series.

In this instance B. and O. preserve the fuller forms, and the other languages fall away by degrees, in the order given above. The whole group points, in my opinion, clearly to a type in मत or वत्. This is still more clearly seen by comparing the pronominal adjective of quality in B. and O. केमन्त, सेमन्त, for मनो is the regular Prakrit form of the masc. मत, just as वन्तो is of वत् in Skr. It is true that the existing Skr. series means rather quantity than manner, thus—

इयान्, इयती, इयत् "so much,"

कियत् "how much?"

एतावान्, *वती, *वत् "so much,"

यावत् "as much as."

But the affixes *mat* and *vat* imply possession, and thus naturally pass over into the idea of manner. It seems that we have in the modern group this affix added to the ordinary range of pronominal types; and thus a formation of a later kind, rather than a direct derivation from the Skr. Kellogg's suggestion of a derivation from a Skr. series in *tha*, of which only *ittham* and *katham* are extant in the classical writings, fails to account for

the Old-Purbi and G. forms, as well as for those in B. and O. Also the S. form **है** seems to be more naturally referred to an earlier *emana*, through *enam*, than to *ittham*, unless, indeed, we regard the anuswāra as inserted to fill the hiatus left by elision of *itth*. S. does, undoubtedly, insert anuswāra to fill a hiatus; but as the cognate languages have a **म** just where the anuswāra in S. occurs, it is more natural to regard the one as a weakening of the other, and the final anuswāra in H. and P. as the same, pushed one syllable forwards, so that H. **ज्यौ** would be for an older form **जिंव**. As the change, whatever it was, was completed before our earliest writer Chand's days, there is no actual proof forthcoming.

§ 82. Adverbs derived from nouns and verbs.—Under this head may be classed certain words such as those given in Vol. II. p. 296, which are either postpositions or adverbs, according to the connection in which they are used. In either case they are, by derivation, locative cases of nouns. Some are peculiar to one or two languages, while others are common, in one form or another, to the whole group. I do not, of course, undertake to give them all, but only a selection of those most commonly used, so as to show the practice of the languages in this respect. There are, for instance, H. **आगे** "before," and **पीछे** "behind," which are used adverbially in the sense of "formerly" and "afterwards" respectively, that is, with reference to time, and in this sense take, like the pronominal adverbs, the case-affixes, as **आगे की बात** "the former matter," lit. "the matter of formerly," **पीछे के दुख में कहेंगा नहीं** "I will not tell the suffering that followed," lit. "the suffering of afterwards." So also with **नीचे** "below," and the other words given at Vol. II. p. 296.

Strictly referring to time definite are H. **आज** "to-day," P. **अज**, S. **अज्ज**, etc. (Vol. I. p. 327), from Skr. **अद्य**; also H. **कल** from Skr. **कल्य** "dawn." This word has two meanings,

it is used for both "yesterday" and "to-day." In rustic H. we have the forms काल, कालि, काल्ह, and कल्ह (see Vol. I. p. 350). As the Skr. means only "dawn" in general, it is used in the moderns in the double sense, but in cases where the meaning might not be clear from the context, a word meaning past is employed when "yesterday" is intended, and a word meaning future when "to-morrow" is implied. It also takes case-affixes, as कल को लड़ाई में घायल हुआ "He was wounded in yesterday's battle," but कल को लड़ाई में यदि घायल हूँगा "If I shall be wounded in to-morrow's battle." G. काले, S. कल्ह, काल्ह, M. काल.

So also are used the following :—Skr. परःचक्षु "the day after to-morrow." In the moderns it has also the sense "the day before yesterday," as H. परसों, and dialects परसौं, परहौं, परों. P. परसों, S. परिहं, परिहंको, seem to be used only in the first meaning. G. परम, M. परवा. O. has पर always in combination with दिन, and where the sentence does not of itself sufficiently indicate the meaning, they add the words "gone" and "coming" to express it more clearly, गत पर दिन "the day before yesterday," and आसता पर दिन "the day after to-morrow."

H. goes a step further still, and has तरसों "three days ago," or "three days hence," where the first syllable is probably Skr. त्रि "three." Similarly S. तरिहं, but also with rejection of initial त, चरिहं. Kellogg quotes dialectic forms in H. अतरसों, तरौं, तरों. In H. we have even a still further नरसों "four days ago," which is rarely, however, used, and the initial of which, I conjecture, comes from अन्य, as though it were for अन्य तरसों "another day (besides) three days ago."

H. सबेर "early," "betimes," and अबेर, or more usually खबेर "late," are Skr. स and अ, compounded with वेला respectively. S. सबेर and अबेर, also खवेला, besides the adjectivally used forms सबेरो and सवारो, as well as खवेनो. In this sense is also used H. सकाले, सकारे, O. and B. *id.*; in O. it is frequently used in

the sense of "early in the morning," also "early to-morrow morning," as **आजि जाइ पारिबुं नहि सकाले जिवुं** "To-day we shall not be able to go, we will go early to-morrow morning." H. here uses **तड़के**, conjunctive participle of **तड़का** "to break," as we should say "at break of day;" also **भोर** "dawn" is used in H. and O., **भोरे** in B. for "at dawn;" where G. has **बाहाणो**, M. **उद्यां** (Skr. **उदय** "sunrise"). Common also is Skr. **प्रभाते**, B. *id.*, G. **परभाते**, of which the Oriyas make **पाहाले** "at dawn;" in Eastern Bengal one hears **पाहा**. The H. **भोर** is probably connected with the Skr. **वृभा** in some way not very clear. G. has a curious word **मळसके** "at dawn," probably connected with **मळवुं** "to meet," and, like Skr. **सन्ध्या**, indicating the meeting of darkness and light.

"Rapidly," "quickly," "at once."—This idea is expressed by derivatives of the Skr. **वृत्**, principally from the p.p.p. **स्वरितम्**, which is used adverbially already in Skr. The forms are: H. **तुरंत**, M. **तूतं**, G. **तुरत**, **तरत**, **खरोत**, S. **तुतुं**, O. B. **तुरंत**, **स्वरित**. M. has a peculiar word **लवकर** "at once, quickly," Skr. **लव** (**वृज्** "to cut") "a minute," M. **लवणें** "to flash, twitch, move quickly." It is not found in any other language. Commoner, however, is H. **झट** "quick!" reduplicated **झटपट**, M. **झटकन**, S. **झटिपटि** and **चटिपटि**, O. **झट**, **झटपट**, B. **झटि**, from Skr. **झटिति**. "Immediately" is also expressed in M. by **तत्काल**, O. and B. **तत् क्षणात्**, but these are pedantic. H. P. M. and S. have also a word **अचानक**; H. also **अचांचक** "suddenly," "unexpectedly," corresponding to which is G. **अचाचेते**, **ओचितो**, pointing to a derivation from **अ** and **वृचिन्** "to think," though I am disposed also to remember Skr. **चमत्कार**, H. **चौक**, in this connection. O. and B. use **हठात्**, literally ablative of Skr. **हठ**, meaning "by force." It is used generally of sudden and forcible action, but also in sentences where no force, only surprise, or a sudden fright, occurs. Similarly in H. and G. **एकाएक** "all of a sudden," M. **एकाएकी**, are used.

Among adverbs of place, considerable divergences exist, each

language having a large stock of words peculiar to itself, in addition to those which are common to the whole group. Sindhi is rich in words of this class, most of which are of somewhat obscure origin. Thus we find a small group with the typical ending in ड, as चाडो "opposite," ओडो "near," ओडिरो diminutive of the preceding. Peculiar to S. is also वेडो "near," with its diminutive वेडिरो. सूधो "accompanied by," O. सुधा, is by Trumpp referred to Skr. सार्ध "with," and सधो "near," to संहित, probably correctly. See the remarks on the postposition से in Vol. II. p. 274, and on the Nepali ablative in सित, Vol. II. p. 235. From adverbs with the affixes आहो and आरो are formed certain adjectives which may, in their turn, be again used adverbially as well as adjectively, that is, they may either stand alone uninflected, or may agree with a substantive in gender and number. Thus—

ओरे "on this side,"	ओराहों "somewhat on this side."
आने "in front,"	आमाहों "somewhat in front."
पोरते "behind,"	पोरताहों "somewhat behind."
मचे "upon,"	मचाहों "somewhat higher up."
मंजे "in,"	मंझाहों } "somewhat inside."
	मंझारो }

This last word recalls the old poetic Hindi मझार used in Chand. (see Vol. II. p. 293). They may also take the feminine ending आही, as चमाही, मचाही.¹

Simple ablatives or locatives of nouns are also used adverbially, as—

पुच्छा } "from behind,"	abl. of पोड "the rear."
पुच्छो }	
पुठिचा "from behind,"	" पुठि "the back."

¹ Trumpp, Sindhi Grammar, p. 355.

मघा "from upon,"	abl. of मघो "the head."
मघे <i>id.</i>	loc. of <i>id.</i>
मागे "at all,"	" मागु "place."
मूरि "completely,"	" मूर "capital," "stock-in-trade."
मूरहि } <i>id.</i>	abl. of <i>id.</i>
मूरारे }	
महंदि "before,"	loc. of महंदु "beginning."
महंदा <i>id.</i>	abl. of <i>id.</i>
पारे "on the other side,"	loc. of पारु "the other side."
पारा "from the other side,"	abl. of <i>id.</i>
चंदरे "within,"	loc. of चंदरु "the inside."
चंदरा } "from within,"	abl. of <i>id.</i>
चंदरे }	
विचे "in the midst,"	loc. of विचु "the midst."
हडे } "at all"	" हडु "the core."
हडेही }	
हेठे "below,"	" हेठु "the bottom."
हेठा "from below,"	abl. of <i>id.</i>

Sindhi thus preserves the case-endings more strictly than the other languages. The latter mostly take the Prakrit locative, or ablative, and entirely reject the terminations.

Hindi has अन्यत्र "elsewhere," Skr. अन्यत्र, निकट "near," also नेरे (dialectically नेह and नेरी); परे "on the other side," भीतर "within," Skr. अभ्यन्तरे, बाहिर, बाहर "outside," Skr. बहिर्, and others.

ML, like S., has मग्नि, but in the sense of "before," also पुढे "before," पन्थाई "beyond," वर "above," खबळ "near," which are peculiar to itself. In the other languages there is nothing deserving special mention; the subject has already been treated in Vol. II. p. 296.

Adverbs of manner.—While the adverbs of place, being also, in their nature, postpositions, and as such used to form cases, do not call for special mention, adverbs of manner are not so used,

and it is to them that the term adverb, in its more special sense, correctly applies. Such words as *āge* "before," *picche* "behind," and the others, may, indeed, be properly regarded as adverbs when they are used alone, but when in conjunction with nouns, they become true postpositions, giving to the relations of the noun a more extended application. Adverbs of manner, on the other hand, are, for the most part, adjectives used adverbially, and this practice is common in all Aryan languages. In Sindhi, which preserves distinctions obliterated in the other languages, adjectives may, as pointed out above, be used adverbially by being undeclined, or, in their true use as adjectives, by agreeing with the subject in gender and case. Thus, to quote the instances given by Trumpp :¹

ओचितोरं कुए हिकडे उन भडि जे भरि में बर किओ
 "By chance one mouse made a hole near that granary."

Here *ochito-t* is an adjective in the nom. sing. masc. with emphatic *t*, and although by the accident of the construction it is in the same case as the subject *kue* "a mouse," yet it is evidently used adverbially.

तडिहो अब हारे बाल घयो रीरे माउ बरिओमि
 "Then having shed tears much, having wept much, his mother returned."

Here *ghayo* is an adjective in the nom. sing. masc., and clearly does not agree with *māu* "mother," which is feminine; it must be regarded as used adverbially.

लुकु लग्नि कोसिजं डाडा तपनि डोह
 "The winds strike hot, the days burn fiercely."

In this sentence I do not think we should regard the adjectives as used adverbially; *लुकु* "winds," is a noun in the nom. pl. fem. and *कोसिजं* "hot" agrees with it, so also *डोह*

¹ *Sindhi Grammar*, p. 286.

"days," is nom. sing. masc. and डाढा "fierce, excessive" (Skr. दृढ), agrees with it; so that we might more literally translate, "the hot winds strike, the fierce days burn."

In Marathi and Gujarati also, where adjectives have the full range of three genders, they are often made to agree with the noun in constructions, where in English they would be used adverbially. When intended to be adverbially used, they stand in the nom. sing. neuter, ending in ऐ M. and उ G. In Bengali and Oriya, where no gender exists, it is impossible to draw the same line of distinction, and this remark applies also to that numerous class of adjectives in Hindi and Panjabi, as also in all the other languages, which are indeclinable, or which, ending in mute *a*, do not vary their terminations. Those adjectives in H. and P. which end in *a* masc. and *i* fem., when used adverbially, stand in the former gender and do not vary with the noun.

§. 83. Conjunctions.—In Hindi the common word for "and" is और, Old-H. अह, अवर, from Skr. अपर "other." In B. and O. it loses the final consonant, B. ओ, O. अउ. In B., however, एवं, pronounced *ebong*, is very common; and आर "also." P. अते, often shortened into ते, probably from Skr. अते "at the end," "afterwards," as well as अर (अपर). S. अउ, अह, ई or इ, in which the fondness of S. for the *i*-sound comes out. G. uses generally तथा literally "then." It has besides ए and ओ for "also," which belong to the group from अपर. G. अने, shortened ने, I am disposed to connect with P. अते, and ascribe to Skr. अते. In the former case the त has been lost, in the latter the न. It may, however, be allied to M. आनि, अणखी "and," from Skr. अन्य "other." In all the languages, however, the shorter conjunction च is in use, side by side with the words given above. The ordinary Skr. च has left no descendants. The Gipsies use ते or ता, which agrees with P., also न, which is Persian ج.

"Also."—H. भी, Skr. अपि हि, Pr. बि हि. The various steps from अपि downwards are all retained in S. पि, बि, मि (for बिहि), and भी. The other forms पुनः, पुनि, पिनि, are from Skr. पुनर् "again," and show a gradual change from the *u* to the *i*, in accordance with S. proclivities. P. नाळे means literally "near to," locative of नाळ "near." G. पण, meaning also "but," is from पुनर्. B. uses चो, and O. मि.

"But" is very frequently expressed even in Hindi by the Arabic words लेकिन لیکن, बल्कि بلكي, and Persian मगर مگر; and in the other languages also. Pure Sanskrit are परंतु and किन्तु, as well as वरण (Skr. वर). In Hindi पर (Skr. पर) is also used, and in P., which also uses अपर, and a strange form ऐपर, in the initial syllable of which we may recognize an incorporation of the near demonstrative pronoun, so that it means "rather than this." P. has also मगवो, मगो, probably corruptions of مگر. Peculiar to P. and S. are the forms P. हयो, S. हया, हयो, and emphatic हयारे and हयोरे "but rather." These are ablatives from ह्य, and the idiom may be paralleled by our English phrase "on the other hand." S. has also पर "but," and पण, in which latter it agrees with G. It also uses मगरि, having added a final *i* to مگر. G. and M., in addition to पण, use also परंतु, O. किन्त and पर, B. किन्तु and वर.

"Or."—H. वा, अथवा, which are Skr., with व for व. The Arabic या یا is very common, and commoner still is कि, probably shortened from Skr. किंवा. This कि is colloquially common in nearly all the languages. G. writes it के, where *e* is short. M. lengthens the vowel and retains the nasalization कीं, also using अथवा, as does G. P. के, अथवा, and या. S. के and को. B. uses several varieties of किंवा, as किम्वा, किवा, कि, and वा, also अथवा. O. the same.

"If."—Skr. यदि, generally pronounced and written यदि, is universal. H. shortens it into अद and जे (= अद्, with loss of द) and जो, by rejection of final *i*, and द goes out, its place

being supplied by व and उ; thus जद = जव = जउ = जो. Persian **अमर** **اَمَر** is also very common. P. जे and जेकर. This last introduces कर for करि "having done." S. जे.

"Although."—Skr. **यद्यपि** is used in B. O., also in H., but more common is जो भी "if even." P. has भविं, literally "one may think," or "it may seem." B. also uses यदि जो "if even." S. तोडे. तोणे, sometimes with जे prefixed, जे तोडे; this, too, is literally "if even," for तोडे alone is used to mean "either," "even," and is apparently really the correlative तो (तउ = तदि) with a diminutive affix. It is not found in the other languages, G. जो पण "but if." In all cases there is a correlative; thus to H. जो or जो भी answers तो or तो भी "then," or "even then;" to P. भविं answers तां भी; to G. जो पण, answers तो पण, and so in all. In B. and O., as in written H., the correlative is Skr. **तथापि** "yet."

"Because."—H. क्युकि literally "for why." B. and O. use Skr. **कारण** "cause," and जे हेतु or जे हेतुक. G. माटे, probably Skr. **मात्रिके**, which is also sometimes used in O. in the sense of "only," "merely," "for the simple reason that." G. has also केमके "for why," and shorter ककि. S. जेना, जेल्ह, where the last syllable is for सादे "for" (see Vol. II. p. 260). S. also uses a string of forms with छा "why?" as छाजो, छा जाइ, and छो ता, छो जो. The correlatives "therefore," etc., take the त form तेजा "etc."

These instances may suffice to show the general principles on which the languages proceed in forming their conjunctions. There is, as in other respects, a general similarity of process, accompanied by variations of development.

§ 84. Interjections.—The various spontaneous or involuntary sounds, some of them hardly articulate, by which sudden emotions are expressed, are scarcely susceptible of rigid scientific analysis in any language. Everywhere we find ha! ho! or ah! oh! and the like. Surprise, fear, disgust, delight, and

other sentiments are often displayed by grunts, shakes, turns of the head, or movements of the hands, and among the people of India the hands play so large a part in conversation that they may almost be said to speak for themselves. It is only the Englishman who can converse with his hands in his pockets.

In Hindi the principal interjections are हे, हो, अहो, ओ "Ho!" or "Oh!" हे is used to superiors, as हे धर्मावतार "O incarnation of justice!" which is the common method of addressing a Magistrate or Judge, हे प्रभु "O Lord!" हे पिता "O father!" हो, अहो, and ओ, have no special tone of respect or disrespect. Sorrow is shown by आ, आह, हाए, हा हा, अहह "alas!" whence the common cry of native suitors, or persons applying to a ruler for redress, दोहाए literally "twice alas!" One often hears *dohāe khuddāunnī*, *dohāe Angrez Bahādūr*, which is as much as to say "grant me justice," or "listen to my complaint." Others are हि हि "fie!" चुप "hush!" ऊह, ओह "ah!" a cry of pain; यू यू disgust; हत तेरी, an expression with a suspicion of indelicacy about it, like too many of the native ejaculations, meaning "begone," and at times with a menacing tone "how dare you?" I suspect the word now spelt हत was originally हट from हटना "to go away," "be stopped," and तेरी the feminine genitive of तू "thou," is explained by such filthy expressions as तेरी मा "thy mother." Two men are quarrelling, and one says to the other "Ah, terī mā," "oh thy mother." The person addressed at once understands that some gross and filthy insult to his mother is intended, for indiscriminate foul abuse of each other's female relations is a favourite weapon with the natives of India. Thus the innocent word साजा or साजा "brother-in-law," has become the lowest term of abuse in these languages, the obscene imagination of the people immediately grasping the idea involved in this assumption of relationship.

Punjabi has mostly the same as Hindi. A very favourite

interjection of surprise with Panjabis, though it is also used by the other languages, is **वाह**, and doubled **वाह वाह**. The simple-minded Panjabi says "wāh! wāh!" to every new thing he sees, and this favourite exclamation helps to form the once terrible war-cry of the fighting Sikhs, "*wāh wāh! fatih gurā ji!*"

All the other languages have these common interjections, several of which are also Persian or Arabic more or less corrupted. Thus the Persian **شاد باش** *shād bāsh*, "be joyful!" is used everywhere as a term of encouragement, "well done!" and is used to stimulate workers to increased efforts, to express approbation, or to kindle flagging courage. It appears mostly without the **و**, as *shabāsh*, *shabāshe*, *abās*, according to the language in which it is used.

A few special remarks are due to a very widespread word which is claimed by the Non-Aryan writers, **बहे**, **बरे** or **रे**. This is used to call inferiors, to rebuke impertinence, in scolding or quarrelling, and in most languages takes also a feminine form **बही**, **बी**, **री**. Dr. Caldwell shows¹ that this word is also in use in the Dravidian group, and is there understood to mean "O slave!" Hemachandra, however (ii, 201), knows it as used in addressing (*sambhāshaye*), and in dalliance (*ratikālahe*). For reproach (*kahepe*) he prescribes **हरे**. I do not dispute the Non-Aryan origin of this word, but it must have found its way into Aryan speech at a very early date, and has there, to a great extent, lost its sense of rebuke, for it is often used merely to call attention, and in friendly condescension to an inferior, and there has sprung up beside it a form **बवे**, used also in the same tone. The interchange of **ह** and **र** need cause no difficulty, being, especially in early writers, extremely common. There does not appear to be any Sanskrit origin for this word, and the fact that in the

¹ Dravidian Comparative Grammar, p. 440 (first edition).

Dravidian group it can be traced to a definite meaning, is one which carries great weight.

In O. and B. **ऐ** is only used in calling males; when addressing females, O. uses **जो**, and B. **मो**. Thus O. **आम जो, मा बजारकु जिबा** "Come along, mother, let us go to the bazar;" B. **निवेदये धनो गुन मो जननि** "The lady entreats, 'hear me, oh my mother'" (Bhārat, Vid.-S. 338). **जो, जोजो** are also used in B. in contempt or reproof. Both these words seem to be fragments of **जोगो**, from Skr. **जोक** in the sense of "person," the word **जोग** or **जोगार्** being used to indicate the woman of the speaker's family, and especially his wife, whom it is not considered proper to speak of directly.

§ 85. It is necessary to revert to the subject of postpositions, although they were partially discussed in Vol. II. p. 295, because in that place they were regarded in only one of their two aspects, namely, as factors in the declensional system. Here they must be looked at as parts of speech, corresponding to prepositions in the western Aryan languages.

In Hindi, in addition to the postpositions mentioned in Vol. II., may be cited as very common the following, some of which are also used as adverbs. Thus **बाहिर** "without" (Skr. **बहिः**) is used as a postposition with the genitive case, as **घर के बाहिर** "outside the house," or even without the genitive sign, as **द्वार बाहिर** "outside the door." So also **पार** "across," "on the other side of," is very commonly used with the direct form of the noun in the phrase **नदी पार** "across the river," "on the other side of the river." So also **समेत** "with," "accompanied by," as **सूर सामेत समेत** "accompanied by his peers and paladins," the meaning of the postposition from **सम् + चा + इ** requires this construction.

बीच "in," "in the middle of," **सिरे** "at the end of" (Skr. **शिरस्**), **कणे** "near to," "at the house of" (Skr. **कर्ण**), **संग** "with," **हाथ** "by means of," **हो** "at," "at the house of"

(Skr. **स्थाने**).¹ are also colloquially common, both with and without the sign of the genitive, but more frequently with it.

Panjabi has **कोळ** "near," literally, "in the bosom of," **कोळों** "from the side of," **बिच्** "in," which is the regular sign of the locative, **पार** "on the other side," and **पार पार** "on both sides" (of a river, valley, etc.), as well as the Hindi words given above.

The postpositions in Sindhi are more numerous, and are divided, more clearly than in the other languages, into two classes, those which are added direct to the oblique form of the noun, and those which are added to the genitive. Of the first class are **भर** or **मरि** "on," "leaning on" (Skr. **भर**), where in H. **भर** rather means "full," as **कोस भर** "a full kos;" **तोड़ि** and **तोणि** "up to," which Trumpp regards as an emphatic locative from **तोड़ु** "end;" **जां**, **जिंच**, **बोच**, **बिरे**, "like" (Skr. **यथा**); **डां**, **डाइ**, **डे** "towards," with an ablative form **इहां** "from the direction of" (perhaps from Skr. **दिग्**); **रे**, **रिच**, "without" (Skr. **छत्ते**); **सां**, **साणु**, **सें**, **सेणु** "with" (Skr. **सम**; cf. B. **सने**).

S. **सूधा** "along with," H. **सूधा** and **सुधा** "with," O. **सुधा** or **सबु सुधा** "together with," "all taken together," from Skr. **सार्धम्**, according to Trumpp and others, but the O. usage seems to refer rather to Skr. **सुद्ध**, in the sense of **संगुद्ध** "completed."

S. **सीचा** "up to," "till" (Skr. **सीमा**), P. **सीं** and **सीउं**, appears occasionally to be used as a postposition, and one or two others of less importance complete the list.

¹ Platts (Grammar, p. 196), from whom I take this list, is the first writer to give the real origin and meaning of this word, which I, in common with most of my countrymen, had hitherto confounded with *yahāg* "here." There was no need for Platts to be so very dogmatic and arrogant about this and one or two similar small discoveries. He should try to bear the weight of his stupendous erudition more meekly. We may be thankful, however, to him for condescending to make a few mistakes occasionally, to bring himself down to our level. Such are the remarkable bits of philology in note 1, page 166, and his remarks on the intransitive in notes to pp. 171; 174. He who undertakes to correct others, should be quite sure he is right himself first.

Of the second class are बाझो, बाझू, बाझों "without," P. बाझ, बाझों *id.* This rather means "owing to the absence of," as in the passage quoted by Trumpp, तान सूरिह भाव्या सेव्ह देखण बाझों दोस जे "Then they were considered by the hero as thorns in the absence of his friend." It is probably connected with Skr. $\sqrt{\text{बध्}}$ in the sense of being bound or impeded. विना "without" (Skr. विना), is also common in H. P. B. and O. In M. विना, and G. विना and वना (*mind, want*).

S. जार and जर "for the sake of," correspond to H. P. लिये, and are used like it, either with or without the genitive particle; but in S. the meaning is the same in both cases, while in H. it differs; thus उस लिये "for that reason," but उस के लिये "for the sake of him."

While in the other languages the postpositions, when not used as case-signs, are almost invariably joined to the genitive with the masculine oblique case-sign, in Sindhi they may take the ablative or accusative. Thus आडो "in front," may take the accusative. It is probably like O. आदी "in the first place," or with a negative आदी न "not at all," "at no time;" thus आदी सेठि यला नहि literally "to begin with, he did not go there," that is to say, "he never went there at all," locative of Skr. आदि "beginning."

चंदरि "within," Skr. चंतर्, but more probably from Persian آندر. ओडो "near to," घारी "apart, without," कारे "for the sake of," contracted from कारणे; मथे "upon," loc. of मनो "head," वनि "like to," वेझो "near to," are also used in the same way.

In Marathi, besides the postpositions which are exclusively employed in forming cases, there are some which are added direct to the oblique form of the noun, and others which require the genitive case-sign.

Of the former kind are वर "on" (Skr. उपरि), which is generally written as one word with the noun, as घरावर "on

the house," उद्यावर "till to-morrow." A longer form is वरता, which is declined as an adjective, generally meaning "up." Others are बाहिर "out," अंत "in," कडे "at," कदून "by means of," बांचून "without," विषयी "about," "concerning," literally "in the matter (of)," मागे "behind," "formerly," पुढे "before," "in future," खाली "under."

There is nothing specially worthy of note in the remaining languages which do not vary from Hindi very widely, either in the words they use, or in the manner of using them.

§ 86. The survey of the seven languages is here ended; the thinness of matter and illustration, in some respects, is due to the want of material, the difficulty of procuring books, and the absence of persons who might be consulted. Others, who enjoy greater advantages in these respects, will, in future times, supplement and supersede much that is defective and erroneous in this outline. Amru'l-kais sings—

وَمَا الْقَرْوُ مَا دَامَتْ حُشَاةُ نَفْسِهِ
يَمْدُرُكَ أَطْرَافُ الْخُطُوبِ وَلَا آلِ

FINIS.

INDEX.

The Roman numeral indicates the volume, and the Arabic numeral the page. Only those words are here given which form the subject of some discussion, or illustrate some rule. A hyphen before a word indicates that it is a termination.

NOTE.—When the anuswāra precedes a strong consonant, it is not the nasal breathing, but the nasal letter of the varga of that consonant, and is therefore the first element in a mixed nexus. It must be looked for at the end of each varga.

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